Home Owners'

CATALOGS

Digitized by

The Association for Preservation Technology International

For the

Building Technology Heritage Library

http://archive.org/details/buildingtechnologyheritagelibrary

©1939

A Special Group of your friends

MAY HAVE COPIES OF THIS BOOK

– *if they are planning to build their own homes*

This one-volume library will be a valuable aid to your friends who are planning to build their own homes . . . you can help them get their own copies of it.

In HOME OWNERS' CATALOGS, the home building materials, equipment, furnishings and services of many prominent firms are fully described and well illustrated, to guide your friends in their decisions on the features they will incorporate in their new homes.

Use the cards . . . As soon as you learn about your friends' intentions to build their own homes, fill in and mail the attached cards, requesting copies of HOME OWNERS' CATALOGS for them.

HOME OWNERS' CATALOGS
PARK SQUARE BUILDING • BOSTON, MASS.

FIRST CLASS
Permit No. 2095
(Sec. 2510, P.L.&R.)
Boston, Mass.

BUSINESS REPLY CARD
No Postage Necessary if Mailed in the United States

2c Postage will be paid by

Home Owners' Catalogs

Park Square Building

Boston, Mass.

FIRST CLASS
Permit No. 2095
(Sec. 2510, P.L.&R.)
Boston, Mass.

BUSINESS REPLY CARD
No Postage Necessary if Mailed in the United States

2c Postage will be paid by

Home Owners' Catalogs

Park Square Building

Boston, Mass.

COPIES OF *Home Owners' Catalogs* will be sent to your home-building friends at your request

HOME OWNERS' CATALOGS will be most valuable to your home building friends if they have their own copies before them during the earliest planning stages. You can start copies of this unusually informative book on the way to your friends with one of the attached cards, or your own brief letter.

RESTRICTIONS . . . It is necessary to restrict the distribution of costly copies of HOME OWNERS' CATALOGS exclusively to families who are planning to build homes for their own occupancy at costs of $4,000 or more, exclusive of land purchases. The work on the new homes is to proceed in the 37 states east of the Rockies within twelve months after the date of the application for a copy of the book. Copies cannot be sent if building has been started. *Every application will be verified by a Dodge representative.*

There is no charge nor any other obligation to the families who will receive HOME OWNERS' CATALOGS.

APPLICATION

RESTRICTIONS—*Home Owners' Catalogs* will be sent only to owners who plan to build homes for their own occupancy within 12 months, east of the Rocky Mountains, costing $4000 or more exclusive of land.

F. W. DODGE CORPORATION—*In accordance with the above restrictions please send a copy of* HOME OWNERS' CATALOGS *to*

Name.....

Address.....

.....

APPLICATION

RESTRICTIONS—*Home Owners' Catalogs* will be sent only to owners who plan to build homes for their own occupancy within 12 months, east of the Rocky Mountains, costing $4000 or more exclusive of land.

F. W. DODGE CORPORATION—*In accordance with the above restrictions please send a copy of* HOME OWNERS' CATALOGS *to*

Name.....

Address.....

.....

Home Owners'
CATALOGS

A Guide
to the Selection of Building
Materials, Equipment and
Furnishings

F. W. DODGE CORPORATION
119 WEST 40TH STREET • NEW YORK, N. Y.

FOREWORD

HOME OWNERS' CATALOGS is sent to you in the belief that it will help you derive greater satisfaction from your new home. You will find it of real assistance as a reference work and a valuable aid in the selection of building materials, equipment and furnishings.

Building a home is more than a romantic experience. Intensely practical aspects are involved, and the satisfaction you derive over the years will depend largely upon the success with which you meet the practical phases of house construction. Of these no others are so important as Design and Plan. Design and Plan must be adjusted to your Desires, your Needs, and your Budget. The architecturally trained man is better able to handle this phase of the home building operation than anyone else.

Nevertheless, no one is as interested in your house as you are; you are going to pay for it; you are going to live in it. Once a material or an equipment goes in, it is there to stay. Once money is invested in furnishings, they are not to be discarded lightly. In taking care of this practical aspect of home building, nothing is more important than information.

Home Owners' Catalogs is a mine of current, reliable information. In it you will find descriptions of products that will increase the comfort and convenience of your home, enhance its appearance, make it less costly to maintain, and add to its value as an investment. You will find products that are new to you, and desirable suggestions that may not have occurred to you. You will probably add Home Owners' Catalogs to your library and consult it from time to time, as you redecorate or add to your home.

INDEX AND GUIDE TO CONTENTS

The catalogs containing home planning information and illustrating the products of the firms below are arranged by firm name in the same alphabetical order.

★ ★ ★

American Brass Company
Brass and Copper Pipe and Tube. Copper—Water, Weather and Termite Protection. Bronze Screens and Accessories

American Radiator & Standard Sanitary Corporation
Heating and Air Conditioning Equipment. Plumbing. Domestic Hot Water Supply. Bathroom and Kitchen Equipment

Armstrong Cork Products Company
Floor and Wall Covering Products

Burnham Boiler Corporation
Heating, Ventilating and Air Conditioning Equipment

Philip Carey Company
Roofing, Siding—Insulating and Dampproofing Products.
Miami Cabinet Division
Bathroom Cabinets and Fixtures

Crane Co.
Bathroom and Kitchen Planning, Equipment, Fixtures and Accessories. Heating Systems, Domestic Water Supply

Donley Brothers Company
Home Devices and Accessories

E. I. Du Pont de Nemours & Co., Inc.
Window Shades and Rug Pads

Fiat Metal Manufacturing Company
Shower Cabinets

Fitzgibbons Boiler Company, Inc.
Heating and Air Conditioning Equipment

Goshen Veneer Company
Perma-Wood—Wood Panelling

Hershey Machine & Foundry Company
Automatic Coal Stoker

Hood Rubber Company, Inc.
Floor and Wall Coverings

Iron Fireman Manufacturing Company
Automatic Coal Burners

Kimberly-Clark Corporation
Home Insulation

Littlefield-Wyman Nurseries
Nurseries—Landscaping

Minneapolis-Honeywell Regulator Co.
Control System for Heating, Ventilating and Air Conditioning

Minwax Company, Inc.
Wood Stains and Waxes, Dampproofing Paints, Waterproofing Compounds

Page Fence Association
Fencing

Rolscreen Company
Casement Windows, Rolling Screens, Venetian Blinds

Ruberoid Company
Roofing, Siding—Insulating and Dampproofing Products

Sisalkraft Company
Protective Building Paper

Smyser-Royer Company
Ornamental Iron Products

Timken Silent Automatic Division Timken-Detroit Axle Company
Oil Heating Equipment—Oil Burners

Truscon Steel Company
Steel Windows, Doors—Floor Constructions, Metal Lath, Concrete Reinforcing

U. S. Plywood Corporation
Interior Hardwood Plywood Panelling
Structural Plywood

Victor Electric Products, Inc.
Built-in Ventilators

Waverly Heating Supply Company
Gas Ranges

Weil-McLain Company
Heating Systems

Henry Weis Manufacturing Co., Inc.
Shower Cabinets

Whitehead Metal Products Company, Inc.
Kitchen Cabinets and Accessories, Sink and Cabinet Tops, Water Tank, Weather Protection

Wyman's Framingham Nurseries
Nurseries—Landscaping

Hundreds of thousands of families about to have their own homes built received a similar copy of Home Owners' Catalogs to aid them in Planning and Selecting Things for Their Home.

25 Bos. B-1-40

MAY WE HELP YOU FURTHER?

Check the items for which you are in the market and on which you desire additional information . . . we will help you obtain further data from reliable manufacturers and dealers.

Fill in, fold, seal and mail . . . no postage required . . . no cost, no obligation.

STRUCTURAL PRODUCTS

AIR CONDITIONING
- ☐ Summer
- ☐ Winter

☐ AUTOMATIC CONTROLS for heating and air conditioning

☐ BATHROOM ACCESSORIES

☐ BRICK (face)

☐ BUILDING PAPER

☐ ELECTRIC GENERATING SYSTEM (private)

☐ FANS (ventilating, kitchen exhaust)

FENCES
- ☐ Wire
- ☐ Wood

FIREPLACE
- ☐ Accessories
- ☐ Mantels
- ☐ Unit circulators

FLOORING
- ☐ Asphalt tile
- ☐ Ceramic tile
- ☐ Hardwood
- ☐ Linoleum
- ☐ Parquet
- ☐ Plank
- ☐ Rubber tile

GARAGE DOORS
- ☐ Folding
- ☐ Overhead type
- ☐ Sliding
- ☐ Swinging

☐ GAS (tanked or bottled)

GLASS PRODUCTS
- ☐ Glass brick
- ☐ Mirrors
- ☐ Plate glass
- ☐ Structural glass
- ☐ Window glass

☐ HARDWARE (finished)

HEATING EQUIPMENT (automatic)
- ☐ Gas fired furnace
- ☐ Oil burner
- ☐ Coal stokers

HEATING SYSTEMS
- ☐ Hot water
- ☐ Steam—vacuum
- ☐ Warm air

☐ INCINERATOR

INSULATION
- ☐ Aluminum foil
- ☐ Blanket or bat type
- ☐ Asbestos, cork or fibre board and sheet type
- ☐ Mica pellets
- ☐ Powdered or granulated
- ☐ Wool

☐ LIGHTNING RODS

LUMBER
- ☐ For exterior walls
- ☐ For interior finish
- ☐ Termite proof

☐ MEDICINE CABINETS

☐ METAL LATH

☐ PAINT PRODUCTS

☐ PIPE AND FITTINGS

☐ PLUMBING FIXTURES

ROOFING
- ☐ Asbestos shingle
- ☐ Asphalt shingle
- ☐ Copper
- ☐ Slate
- ☐ Tile
- ☐ Wood shingle

☐ SEPTIC TANK

☐ SHOWER CABINET

☐ WATER HEATER (domestic)

☐ WATERPROOFING

☐ WATER SUPPLY SYSTEM (private)

☐ WEATHERSTRIPS

WINDOWS
- ☐ Metal
- ☐ Wood

WINDOW SCREENS
- ☐ Flat
- ☐ Rolling

OTHER ITEMS
- ☐ .....
- ☐ .....
- ☐ .....
- ☐ .....

HOME FURNISHINGS, DECORATIONS AND APPLIANCES

☐ AWNINGS

☐ CURTAINS AND DRAPERIES

FLOOR COVERINGS
- ☐ Carpet
- ☐ Rugs

FURNITURE
- ☐ Bedroom
- ☐ Dining room
- ☐ Living room
- ☐ Porch or lawn

☐ KITCHEN CABINETS

☐ LANDSCAPING, Trees and Shrubs

☐ LIGHTING FIXTURES (interior)

REFRIGERATOR
- ☐ Electric
- ☐ Gas
- ☐ Ice box

STOVE (kitchen)
- ☐ Electric
- ☐ Gas

☐ VENETIAN BLINDS

WALL FINISHES
- ☐ Burlap
- ☐ Ceramic tile

WALL FINISHES (Cont'd)
- ☐ Linoleum
- ☐ Metal tile
- ☐ Plastic texture paint
- ☐ Sand
- ☐ Wallboard
- ☐ Wallpaper
- ☐ Wood panelling
- ☐ Window shades

OTHER ITEMS
- ☐ .....
- ☐ .....

Without any cost or other obligation to me, I desire further data on the items checked above (for which I am in the market) not later than.....
(Date)

Name.....
(Please Print)

Address.....

DETACH HERE

FIRST CLASS
Permit No. 2095
(Sec. 510, P.L.&R.)
Boston, Mass.

BUSINESS REPLY ENVELOPE

No Postage Necessary if mailed in the United States

Postage will be paid by

Home Owners' Catalogs

Park Square Building

Boston, Mass.

ANACONDA

COPPER BRASS & BRONZE

Throughout Your Home

ROOFING

WATER PIPES

HEATING LINES

HOT WATER TANKS

SCREENS

WEATHER-PROOFING

DAMP-PROOFING

THE AMERICAN BRASS COMPANY

GENERAL OFFICES · WATERBURY · CONNECTICUT

Anaconda Publication B-5-H
Copyright 1939 by The American Brass Company

THE BEAUTY • VALUE • ECONOMY OF YOUR NEW HOME

cannot be maintained for long unless you guard against RUST.• Therefore consider carefully all the advantages and the economy of these lasting, non-rust

ANACONDA PRODUCTS

	PAGE
Economy Copper Roofing	5
Sheet Copper for Gutters, Rainpipes, Flashings	10
Brass Pipe	12
Copper Water Tubes	13
Copper Tubes for Heating Lines	14
Everdur Metal for Hot Water Tanks	15
"Electro-Sheet" Copper for Weatherproofing and Damp-Proofing	19
Sheet Copper for Termite-Proofing	22
Bronze for Windows and Weatherstrips	23
Bronze Wire for Screens	24

ANACONDA
from mine to consumer
REG. U.S. PAT. OFF.

COPPER, BRASS AND BRONZE

in the Home

IN BUILDING A NEW HOME, you naturally want the most value for every dollar you spend. To make certain of this, care must be exercised to distinguish between what is really important and what only *seems* important. There are many desirable things—accessories that are useful but not essential—on which action can be postponed.

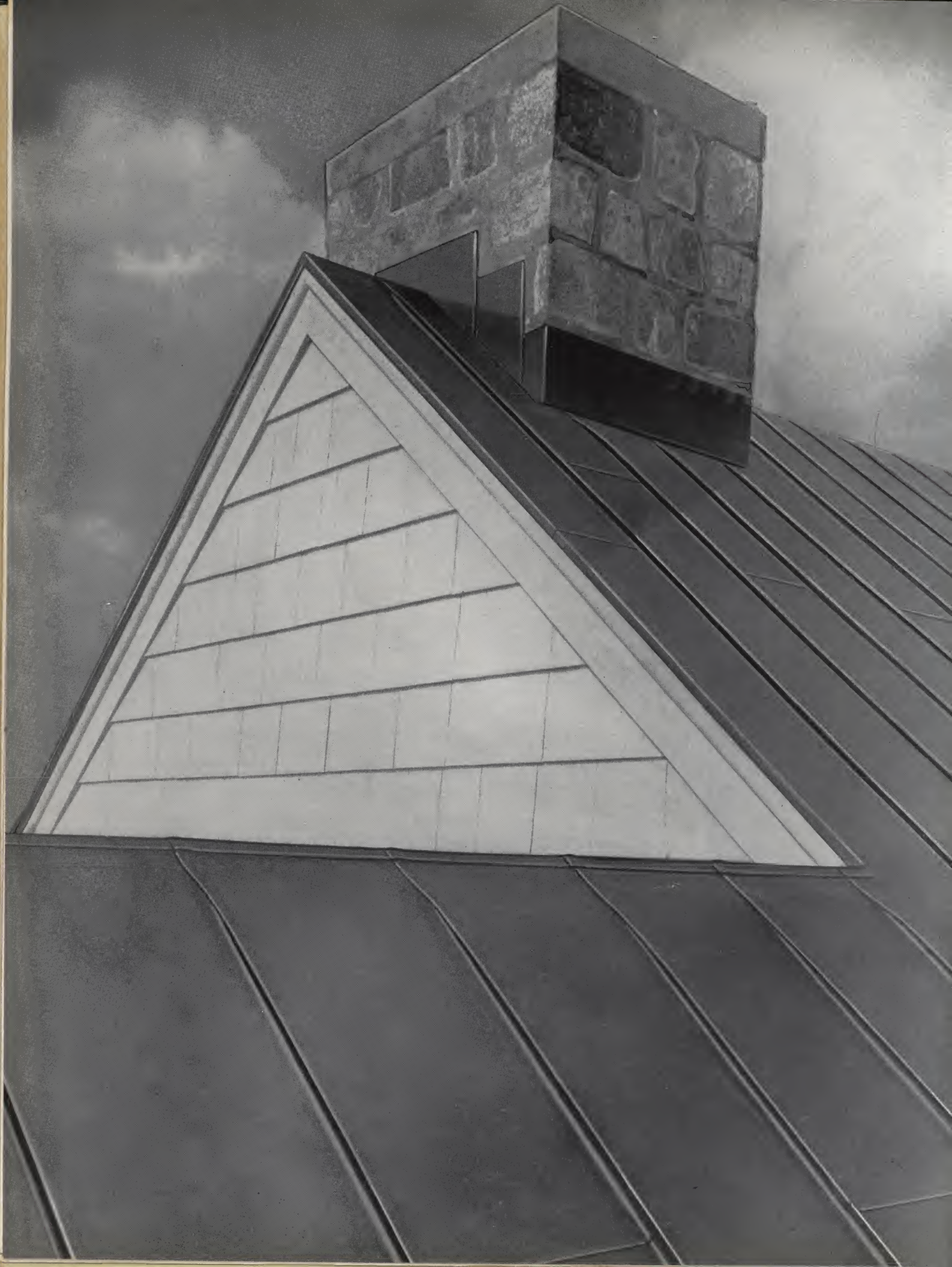
But there are other things that are vital; matters of sound construction—*fundamental* things, too often overlooked, that mean so much to the enjoyment of your home in after years. Such things, for example, as water pipes and storage tanks . . . roofing, roof flashings, gutters and rain pipes . . . window and door screens.

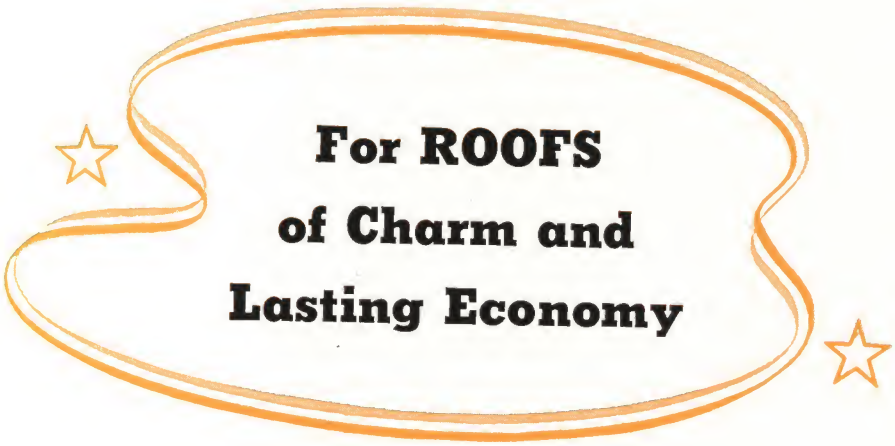
These items, all of them important, are frequently neglected because they seem but incidentals; neglected in some instances so badly that they soon constitute a burden of upkeep and repair expense that strains the family budget and takes from home ownership much of the pleasure it should rightfully hold.

The ANACONDA PRODUCTS *described on the following pages are giving rust-free, trouble-free service . . . and saving money . . . for thousands of homeowners who have had the foresight to provide for the future by spending a little more at first for rustless copper, brass and bronze.*

* * *

And to assure yourself of the utmost in value, make sure that ANACONDA METALS are specified and used. Anaconda Metals are made and trade-marked by The American Brass Company, world's largest and most experienced manufacturer of copper and copper alloys.





COPPER IS THE FINEST MATERIAL YOU CAN USE

FOR CENTURIES copper roofs have adorned palaces, cathedrals and state buildings throughout the world; for such monumental structures the superiority of copper roofing has long been recognized. It has provided both stateliness and charm, warmth yet dignity, and the economy which characterizes this lasting non-rust metal.

* * *

To the home, copper roofing brings rich appearance and a note of character and quality. The effect becomes increasingly beautiful as the copper ages and attains the mellow antique color that is so highly prized and valued for decorative purposes.

* * *

Copper roofing, rustless and lasting, combines to a degree unrivaled by any other material these important qualifications: It is water-tight in spite of time and weather, relatively light in weight, non-inflammable and safe against flying embers. Snow and ice do not adhere readily to its smooth surface. It is easily installed, and above all most economical over the years.

* * *

Copper roofing is now available at a cost which makes its use practical even for the small home—a cost well expressed in the name *Economy Copper Roofing*. This Anaconda product, designed especially for residential roofing, is described in detail on the following pages.

Designed by J. Robert Swanson, Architect, this home was built in a wooded section of Detroit, Mich.

ANACONDA

ECONOMY COPPER ROOFING

THE COPPER USED for the many outstanding roofs in this country and abroad has weighed 16 or more ounces to the square foot—resulting in a more costly roof than the average homeowner could afford.

With the development of ANACONDA ECONOMY COPPER ROOFING, an attractive standing seam roof of this time-tried metal can be installed according to traditional methods at a saving of approximately one-third the cost of sheet copper roofing heretofore used.

You may well wonder that this cost reduction could be achieved without some sacrifice in the important qualifications of watertightness, durability and beauty. The two-fold reasons are: 1—Narrowing the sheets to a width of 16 inches reduces seam spacing to a point in keeping with

smaller roofs, and makes possible the use of thinner metal without sacrificing the strength, rigidity and wind resistance obtained from thicker sheets with wider seam spacing. This new design has permitted establishing the weight of ANACONDA ECONOMY COPPER ROOFING at 10 ounces per square foot. 2—These lighter weight sheets, being more workable, are more easily and quickly formed and assembled by experienced sheet metal contractors. This reduces installation expense.

That a copper roof at such savings provides an entirely new standard of economy will be apparent from the following specific advantages:

This home in Darien, Conn., was roofed by the N. Hamilton Company of Stamford.

Economy Copper Roofing on a house in Marblehead, Mass., designed by Donald C. Goss, Architect.

Appearance—Copper increases in beauty with age and service. Under most atmospheric conditions, the metal takes on a color similar to statuary bronze and eventually acquires the characteristic, velvety green patina which blends so well with stone, brick, wood and foliage. This patina also serves a useful purpose in that it forms a natural protection for the copper underneath.

Durability—The durability of copper is traditional. The hottest sun cannot harm it. Below-zero weather leaves it unaffected. For generations copper roofs have protected Christ Church in Philadelphia, the Trinity Church in New York, and the State Capitol in Boston—to mention but a few well-known examples. Standing seam roofs were much more successful than other types in withstanding the effects of the hurricane which devastated so many homes along the Atlantic seaboard in the autumn of 1938.

Maintenance—A copper roof, correctly installed, should need no further attention. Of all forms of metal roofing, the standing seam type is the most satisfactory and inexpensive to install. It provides adequately for expansion and contraction.

Fire-Proof—A copper roof eliminates the flying spark hazard, thus earning a lower insurance rate.

Snow-Free—Snow and ice do not readily adhere to the smooth surface of a copper

Standing seam copper roofing is well adapted to homes like this one in Detroit, Mich. Earl Confer, Architect.

Copper roofing on still another type of architecture, in Newton Highlands, Mass. Built by Davis & Vaughan.

Note how gracefully Economy Copper Roofing can be curved as shown above on a Middlebury, Conn., house.

roof. This minimizes danger of leaks at flashings when banked up snow and ice melt.

Cools Faster—A home owner in Fort Worth testifies: "I am glad to report that this copper roof was much cooler than other types of roof that hold the heat in Texas sometimes after midnight. Anaconda Copper will cool off in 15 minutes after the sun goes down."

Protects Insulation—This protection is highly important. Water or moisture impairs the efficiency of cellular insulating materials. A correctly installed copper roof is not only water-tight, but completely *moisture-proof*—ideal construction for an insulated home.

Light Weight—Economy Copper Roofing is much lighter in weight than wood, tile, asbestos or slate. Hence a heavy, more costly supporting structure is unnecessary.

The Combination of these Advantages is Unsurpassed Value

The ideal roof could well possess all of these important advantages. In addition, it should be easy and inexpensive to install, and should require a minimum of expense for maintenance. Anaconda Economy Copper Roofing fulfills all of these requirements. Compare it, point by point, with other roofing materials, and you will see why Anaconda Economy Copper Roofing offers unexcelled value.

1936 "Good Housekeeping House", designed by Dwight James Baum, Architect, and built in Wychwood, Westfield, N. J.

General Notes

Standing Seams—This type of joint is readily made, and has proved its efficiency in long service. The standing seam, which does not require solder, provides free movement for the expansion and contraction of the metal. Spacing between seams is approximately 13¾ inches.

Horizontal Seams—The seams at the ends of each pan are of the simple flat-lock type, ¾" lap, unsoldered. Horizontal seams are staggered.

Cleats—No nails penetrate the sheets themselves, which are kept in place by copper straps (cleats), nailed to the roof deck every 12 inches along each vertical seam, and cross seams if desired, with flat-head copper nails.

Valleys—Ten-ounce Copper is considered satisfactory, but where the valleys drain large roof areas or extra rigidity is desired, copper weighing 16 ounces per square foot should be used.

Soldering—Installation is made without the use of solder, except in unusual instances where soldering is absolutely necessary to make flashing joints watertight.

Pitch—Economy Copper Roofing should not be applied on slopes of less than four inches to the foot.

Sheathing—Boards should be laid solid without open joints, parallel to ridge. Sheathing boards are covered with 15-pound asphalt-saturated felt.

Re-Roofing—Anaconda Economy Copper Roofing is of course as suitable for old roofs as for new, but it should not be applied directly over old roofing materials.

ANACONDA SHEET COPPER

For non-rust Gutters, Rainpipes, Flashings

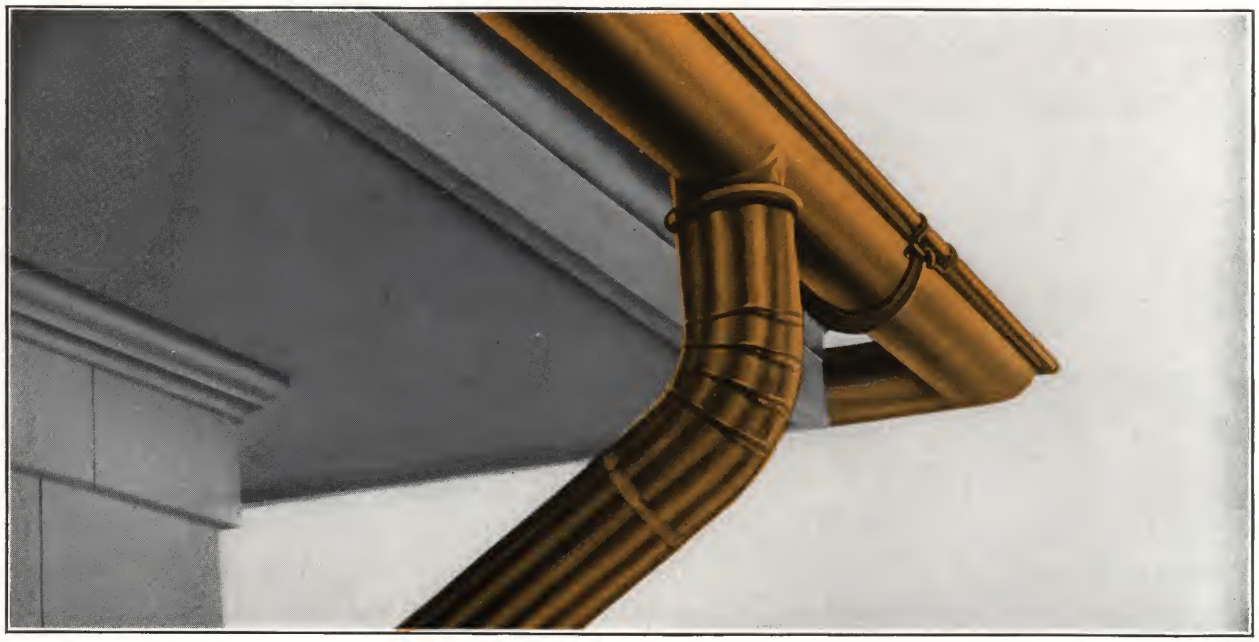
Many homeowners are insisting on copper. They have found that, no matter how "cheap" rustable gutters and rain-pipes seem to be, they always cost far more in the end.

REGARDLESS of the type of roofing, extreme care should be used in selecting the metal which is needed for the *roof drainage* system. Repairs and replacements are an item of future expense that can easily be avoided.

Valleys, gutters and rain-pipes should by all means be made of copper. Rain water, concentrating in the valleys and gutters, and rushing in flood volume to the downspouts, severely tests rust-weakened metal. That is why metals that rust usually last only five to eight years, while copper serves indefinitely.

The same is true of flashings—strips of metal used to weather-proof the roof wherever it comes in contact with chimneys, dormer windows or other projections. It is most important that the metal used be copper because ferrous flashings will soon rust, admitting water to rot the woodwork and perhaps to cause considerable damage to the interior of the house.

Copper sheet metal work is not expensive. Though it does cost slightly more in the beginning, it saves far more in the end by forever eliminating upkeep expense due to rust. Copper, for instance, never need be painted, but if ferrous metal is used, constant painting *to delay* rust adds another annoying expense.



RUST-FREE WATER YEAR AFTER YEAR

FROM TROUBLE-FREE PIPING of COPPER or BRASS

A FULL FLOW of rust-free water—*at all times*. That is the demand of the tenant and owner, and the goal of the architect. The realization that rustable water pipe, resulting in eventual repair or replacement, is not economical, has led to a pronounced increase in the specification and use of brass and copper for water supply, heating and air conditioning lines.

Permanent Pipe Needed

The need for permanent pipe was not as great a generation ago as it is today. Then piping was exposed and accessible, and labor costs were lower. Replacements were expected, and relatively inexpensive. Nevertheless, there are many authentic records of 19th century brass pipe installations that have justified the foresight of their original owners by a half-century and more of trouble-free, uninterrupted water service.

Rust—the most common cause of pipe troubles—results in rust-colored water, reduced flow, and eventually in leaks. With present-day piping usually concealed behind walls and under floors, repairs and replacements cause serious expense and annoyance. The cost of pipe renewals usually amounts to many times the initial saving that rustable pipe seems to offer. Realizing this, it is logical that thoughtful homeowners are turning so generally to non-rusting metal—to avoid the possibility of future rust troubles.

Other factors further emphasize the need for quality pipe. The corrosiveness of public water supplies is in itself a serious problem. Present standards of sanitation have broadly extended the chemical treatment of domestic waters, in many cases increasing their corrosiveness.

The effective resistance to corrosion that brass or copper pipe and copper tubes offer meets a nation-wide need. Correctly installed, they provide dependable and economical protection against pipe failures due to rust. Their additional cost is slight in relation to the total plumbing cost, and negligible in relation to the total cost of the home.

ANACONDA "85" RED BRASS PIPE

REG. U. S. PAT. OFF.

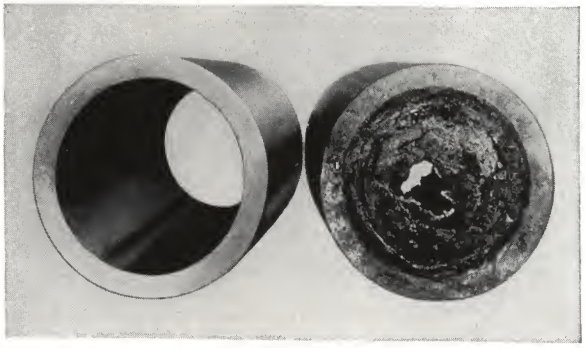
85% Copper—For Highly Corrosive Waters

WHERE THE CORROSIVENESS of water is known to be exceptionally severe, a permanent water supply can be assured only by use of pipe with extraordinary resistance to corrosion.

Such corrosive conditions are very often found in localities drawing on mechanically filtered supplies without further treatment. These waters may be relatively low in hardness, high in carbonic acid gas content and low in alkalinity—pH value 5 to 6.5. Ground waters from shallow artesian wells or large dug wells and colored waters from peaty sources usually fall under this classification. There is a growing tendency to treat such waters, not only to neutralize the carbonic acid gas, but to make the water high in alkalinity with pH value around 9 or 10. Anaconda 85 Red Brass Pipe is recommended for use with such types of water. It offers the greatest resistance to corrosion of any water pipe commercially obtainable at moderate cost.

Anaconda 85 Red Brass Pipe is also recommended for underground service lines assembled with threaded connections.

There are certain conditions, depending upon the character of the water, when 85 Red Brass Pipe should be tinned. Additional information furnished on request.



This photograph shows brass pipe (left) and rustable pipe (right) after identical *service. This is a graphic illustration of the extent to which rust may interfere with service even though leaks have not developed.*

ANACONDA "67" BRASS PIPE

REG. U. S. PAT. OFF.

67% Copper—For Normally Corrosive Waters

ANACONDA 67 Brass Pipe can be depended upon to give lasting service in all localities where normal conditions prevail; that is, where the water has a low permanent hardness, a fair degree of temporary hardness, is low in carbonic acid gas content, or is only slightly alkaline.

Corrosiveness of Water is Subject to Change:

It should be borne in mind, however, that the corrosiveness of domestic waters is subject to radical changes, due principally to the introduction of new purification methods and to the need for additional sources of supply to meet the constantly growing requirements of most communities. As a result, waters that are only normally corrosive today may be highly so in a few years.

Consequently, when specifications call for standard-size pipe assembled with threaded "screw-type" connections, The American Brass Company recommends the use of Anaconda "85" Red Brass Pipe in every instance where it is not definitely known that the water supply is only normally corrosive, or where there is a possibility that changing conditions may in the future increase the corrosiveness of the local water supply.

ANACONDA COPPER WATER TUBES

For Low Cost, Rust-Proof Plumbing and Heating Lines

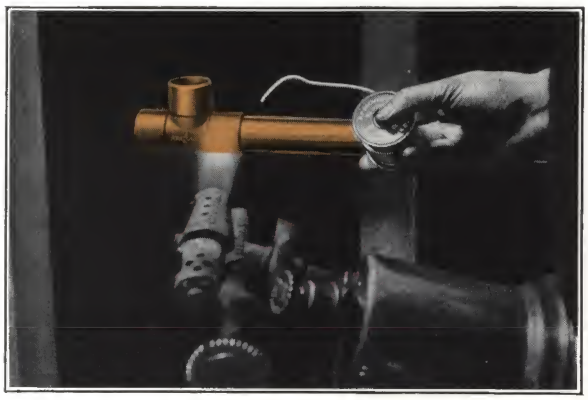
WHERE low cost is of primary importance, Anaconda Copper Tubes and Anaconda Solder-Type Fittings are finding widespread use. A complete installation costs but a little more than one of short-lived rustable pipe and fittings. This low cost is due to the fact that solder-type joints eliminate threading—making possible lighter tube walls, less weight per foot and a corresponding reduction in cost. Labor costs are also minimized. However, such important points as thorough cleaning, correct heat, proper fluxing and the right solder make it imperative to employ an experienced plumbing contractor.

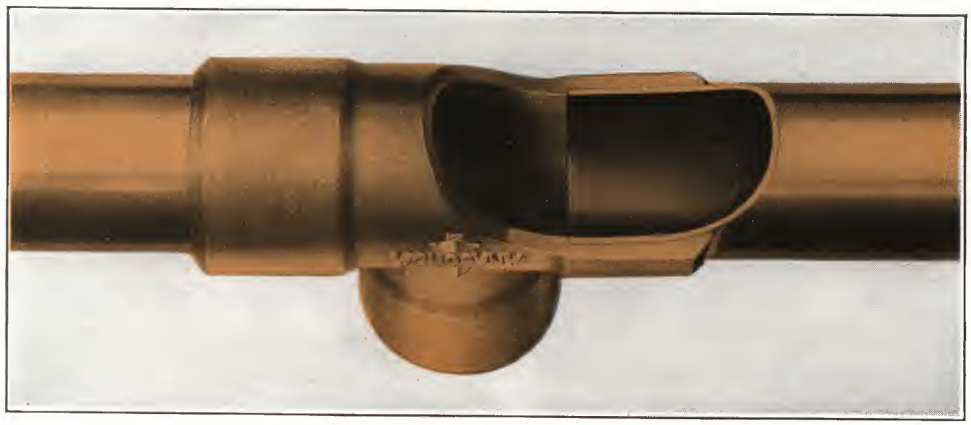
Mechanically, such a piping system provides more than ample strength where conditions of pressure and temperature are normal. In this respect, copper tubes are ideally suited to hot and cold water lines in houses.

With rust-proof piping available at such reasonable cost, it is evident that its use affords definite, worthwhile savings, in addition to the convenience of a full flow of rust-free water, year in and year out.

Anaconda Copper Tubes are furnished in three wall thicknesses: Types "K", "L" and "M". Type "K", the heaviest, is furnished for underground service and general plumbing. Type "L" Tubes are suitable for interior plumbing. Although Type "M" Tubes have been used, Types "K" and "L" are preferred because their more substantial wall thicknesses provide a greater margin of safety.

There are certain conditions, depending upon the water, when copper tube lines should be tinned. Additional information furnished on request.





Cut-away section showing completed joint of tube and solder fitting. Note the generous depth of the cup and the accurate fit at the end of the tube. This practically eliminates resistance to the flow of water.

FOR HEATING LINES

Copper Tubes Speed Up Circulation, Cut Heat Losses, Give Greater Efficiency

AN INSTALLATION of Anaconda Tubes and Fittings increases the efficiency of hot water heating systems. Both tubes and fittings have smooth inside surfaces which reduce resistance to the flow of water . . . a feature which is especially valuable in forced circulation systems. Hot water, conveyed through bright, uninsulated Anaconda Copper Tubes, loses only about one-half as much heat as is lost when uninsulated black iron of the same nominal size is used. Heat conservation with copper is further increased with the use of smaller sizes—because of the faster flow which is due to the permanently smooth interior of copper tubes. With quicker circulation and reduced heat losses, maximum heat is delivered to radiators in the least possible time.

Another advantage of Copper Tubes is that when installed without covering, the gleaming metal enhances the appearance of the cellar and basement room used for recreational purposes.

Anaconda Solder-Type Fittings

The natural law of capillary attraction is the principle on which the design of Anaconda Solder-Type Fittings is based. Metal workers have employed this principle for years in sweating sections of pipe together. Solder will flow by means of capillary attraction vertically upward between two closely fitted tubes to a height many times the distance required to make a solder joint, regardless of the size of the fittings.

* * *

Anaconda Fittings are available in both wrought copper and cast bronze. The complete Anaconda line includes a solder-type fitting for every copper tube requirement in plumbing, heating and drainage. Anaconda Copper Water Tubes are furnished both hard and soft. Both tubes and fittings are made to the accurate, standardized dimensions so essential for sound, leakproof joints.

Look for the Anaconda trade-mark on fittings, and the name "ANACONDA" stamped in copper tubes. It is your assurance of careful manufacture and dependable quality.

STRONG, NON-RUSTING

EVERDUR METAL

FOR

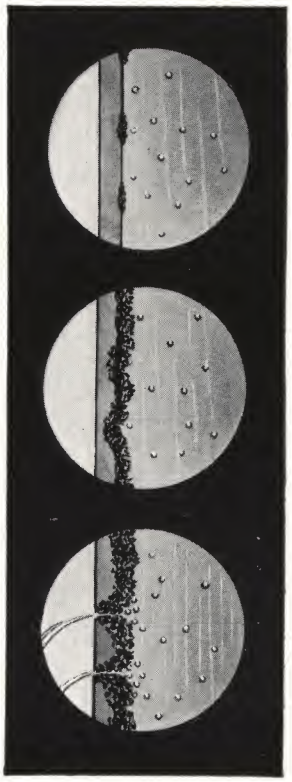
WATER TANKS

"EVERDUR" IS A TRADE-MARK OF THE AMERICAN BRASS COMPANY
REGISTERED IN THE UNITED STATES PATENT OFFICE

PLENTY OF RUST-FREE HOT WATER

A PLENTIFUL SUPPLY of hot water is regarded as a necessity to health and comfort in the home of today. Yet sparkling hot water may be expected, year in and year out, only when the hot water tank is made of metal that cannot rust. This is easy to understand—because hot water causes rust to form even faster than cold water.

A glance at the illustrations below reveals how rust, once started, continues to attack ordinary tank metal.



EVERDUR—Ideal Tank Metal

Steel and copper were long the standard materials for hot water storage tanks. Each possessed distinct advantages. Steel offered high strength and economical fabrication, but was subject to rust and corrosion which tainted water, and in time weakened tank metal to a point below the limit of safety. Copper has provided the corrosion-resistance so often essential to long, economical service, but has lacked the physical properties needed for economical tank construction.

Everdur Copper-Silicon Alloy combines the corrosion-resistance of pure copper with the tensile strength of mild steel. Moreover, its ease of welding makes it possible to manufacture Everdur tanks of virtually one-piece construction at lower cost than pure copper tanks, which are usually brazed and riveted.

SIZES AND TYPES

Everdur tanks in service today range in size from one gallon fuel containers for gasoline stoves to 20,000 gallon pressure vessels operating in chemical process work. They are in service in laundries, textile plants, hotels, hospitals, schools, office buildings, apartment houses and homes.

AUTOMATIC HEATERS

Because Everdur is so strong, and can be so economically and perfectly welded, important manufacturers of automatic gas, electric and oil heaters, with very few exceptions, have adopted Everdur tanks as standard equipment for rustproof models.

Everdur tanks provide high efficiency and most economical operation for underfired hot water heaters. There can be no accumulation of rust from tank corrosion at the bottom of the vessel to insulate the water from the heating element.

Further information on automatic heaters with Everdur tanks can be obtained from your local Gas or Electric Company, or your local plumbing contractor.

TESTING EVERDUR TANKS

Everdur tank units for domestic heaters have been subjected to the most drastic tests. One manufacturer making an all-welded tank from Everdur plates applied a test known as the "breather." It consists of pulsating pressure in the tank from 0 to 150 pounds, 13 times a minute. Five hundred hours of this test are considered the equivalent of 20 years of normal service. Everdur tanks have been held on this test for over 1,000 hours without showing signs of leaks or distortion.

This drastic test demonstrates the great strength of Everdur Metal, but it must be remembered that under no circumstances should *any* domestic water tank, regardless of the metal of which it is made, be operated without a suitable pressure relief valve.

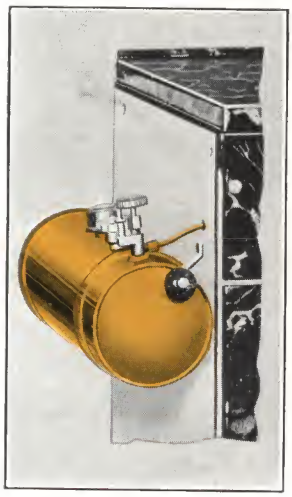
Typical welded Everdur tank as used in automatic water heaters.

EVERDUR STORAGE TANKS (Range Boilers)

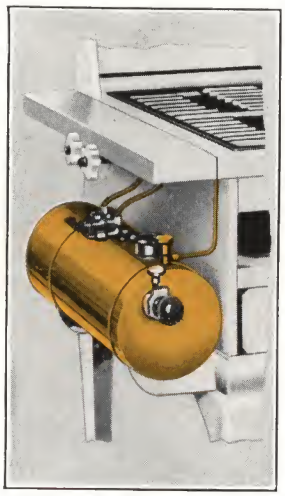
When an automatic storage heater is not used, the hot water is generally kept in a storage tank, or "range" boiler. Leading manufacturers of such tanks have adopted Everdur Metal for non-rust units.

Used with the different types of independent heating units, range boilers in the past have been made principally of steel—although copper has always been used in sections of the country where the water supply is highly corrosive. However, welded Everdur tanks have offered many production economies, with the result that the price differential between the rusting and non-rusting kind has been considerably reduced.

Home owners, no longer content with rusty hot water, or frequent repairs and periodic replacements, are installing welded Everdur storage tanks. These are generally available from plumbing contractors in all standard sizes and for standard pressures.



Everdur gasoline stove fuel tank. American Gas Machine Co., Albert Lea, Minn.



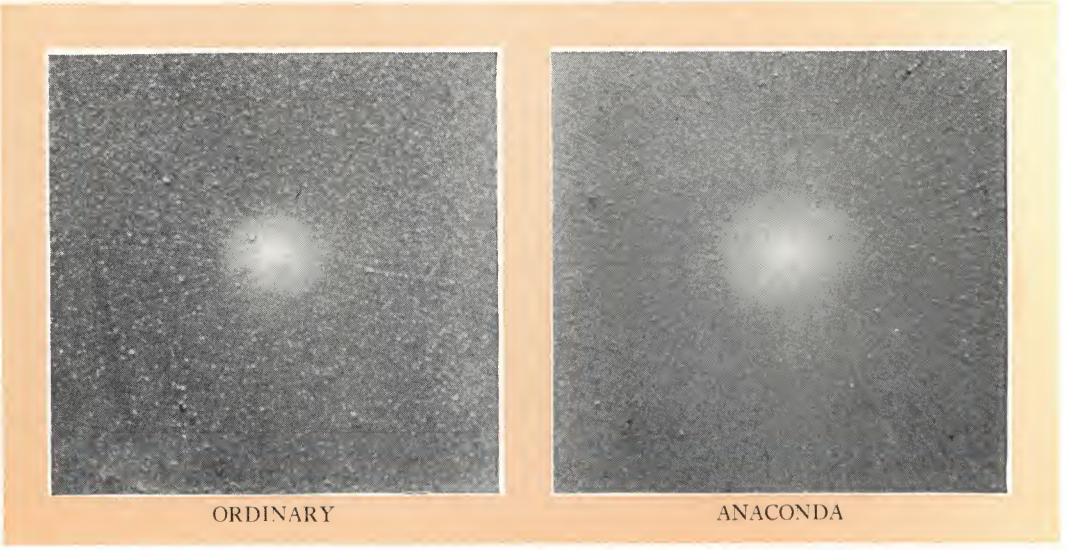
Everdur gasoline stove fuel tank. Coleman Lamp & Stove Co., Wichita, Kansas.

FUEL TANKS, TOO,
are being made of Everdur

Gasoline-fired ranges, stoves, radiant heaters and other similar equipment are available with fuel tanks of welded Everdur. Being strong, and highly resistant to corrosion, Everdur gasoline tanks provide maximum safety.

For better, more durable paint

ANACONDA WHITE LEAD



The paint films shown above were prepared by dropping paint on rapidly whirling glass plates, thus retaining a very thin film which outlines granular particles. As shown, ordinary lead paints are sandy in comparison with ANACONDA.

Today as always, white lead paint is regarded as best for exterior gloss and interior flat uses. Furthermore, at today's low prices (Summer, 1939) white lead costs no more per gallon than most other paints. But, of more importance, no paint serves at less cost per square foot per year than white lead. White lead covers better, goes farther and spreads faster. This means fewer gallons and fewer hours on the job. Lasting longer, washing well, wearing evenly, white lead leaves a smooth surface for repainting.

Why ANACONDA White Lead?

Anaconda White Lead is whiter, brighter, smoother, and purer than any other white lead —because it is the only white lead made by Electro-Chemistry. This patented Anaconda process automatically excludes the impurities found in ordinary white lead. Rigid control throughout manufacture permits over 80 physical, mechanical and chemical tests *daily* to insure *perfect uniformity*.

Test comparisons of Anaconda and other white leads show that Anaconda is definitely whiter and brighter. Homes painted with Anaconda White Lead *do* look fresh longer. And for interior flat paints, the extreme whiteness of Anaconda White Lead makes possible cleaner, purer tints—particularly important when you want the full beauty of delicate pastel shades. Thoroughly ground in the finest linseed oil, it is available through leading paint jobbers and dealers. For further information on Anaconda White Lead, check and use the postcard on page 27.

ANACONDA WHITE LEAD IS MADE BY INTERNATIONAL SMELTING AND REFINING COMPANY, PIGMENT DIVISION, EAST CHICAGO, INDIANA (SUBSIDIARY OF ANACONDA COPPER MINING COMPANY).

SEALING YOUR HOME WITH COPPER

ANACONDA *"Electro-Sheet"* COPPER

A RECENT DEVELOPMENT by the technical staff of the Anaconda Copper Mining Company now makes it possible to damp-proof and weatherproof your home with non-rust copper for very little more than you would have to pay for the perishable materials that have necessarily been used in the past.

This new material, known as "Electro-Sheet", is pure copper produced in very thin gauges by electrical deposition. It is strong and ductile, and provides a lasting seal against wind, weather and moisture. It affords invaluable protection to cellular insulating materials. In winter, it keeps cold out and heat in; in the summer it helps to keep the house cool.

"Electro-Sheet" Copper may be employed wherever building paper is used, and applied by much the same methods. And it costs but little more than high grade building paper.

Applied to foundation walls and cellar floors it keeps basements dry. The foundations and walls of a house damp-proofed and weatherproofed with "Electro-Sheet" are virtually encased in an envelope of Copper.

Anaconda "Electro-Sheet" Copper for damp-proofing and weatherproofing is available in 30, 50, and 60-inch widths and weights of 1, 2 and 3 ounces per square foot, bonded to building paper or surfaced with asphaltic compounds.

WEATHER-PROOFING AND DAMP-PROOFING

It is generally recognized that both comfort and heating economy in a home depend to a great extent upon the efficiency of the outside walls in acting as a barrier against heat, cold, wind and dampness. The tendency towards equalization of temperatures between the inside and the outside is brought about principally by two causes—infiltration and conduction.

INFILTRATION is the passing of cold or warm air, moisture or dust through the joints and pores of ordinary building materials.

"Electro-Sheet" Copper is not subject to deterioration and when applied as shown on the next page provides a permanent air-tight barrier. It affords the most economical and practical method of preventing infiltration through the surfaces to which it is applied.

CONDUCTION through a building wall is the transference of heat in or out of the building due to the tendency of heat to pass through all materials in various degrees.

This may be overcome by installing cellular insulating materials, a practice which is being followed in many homes being constructed today.

Since most insulating materials are effective only when dry, it is quite important to have the insulation protected on the outside by a lining of "Electro-Sheet" Copper.

CLAPBOARD OR WOOD SHINGLE EXTERIORS

Clapboards or wood shingles as commonly applied to the exterior sides of buildings are never airtight and seldom completely weatherproof. In order to minimize infiltration from this type of wall a single ply of 1-oz. "Electro-Sheet" can be face nailed to the outside of the sheathing boards.

STUCCO EXTERIOR

Where stucco on metal lath is employed for outside wall facing, efficient waterproofing is of the utmost importance. One layer of 2-oz. "Electro-Sheet" applied in horizontal courses against the sheathing and securely held in position by furring strips will protect the sheathing against moisture.

BRICK OR STONE VENEER EXTERIOR

Brick or stone veneer outside a wood framed and sheathed house represents a common type of construction. A single ply of 2-oz. "Electro-Sheet" nailed onto the face of the sheathing, with the bottom flashed so as to lead any moisture penetrating through the veneer to the outside, will protect the woodwork from water both during construction and after. "Electro-Sheet" applied in this way also minimizes infiltration and makes the wall surfaces as nearly airtight as possible.

ATTIC FLOOR LINING

Loss of warm air by outward filtration is most marked at the roof because of the tendency of warm air to rise. By applying a thin membrane of copper to the top of attic joists, clamping the edges of the sheets down with furring strips, and nailing the attic flooring over the strips, two dead air spaces are created, which, with the practically airtight copper membrane, will have a very desirable effect as regards heating and air conditioning.

Maximum efficiency is achieved when this construction is used in conjunction with cellular insulation. The copper will protect the insulation from moisture, and will prevent the loss of heat by outward filtration.

VAPOR SEAL AGAINST CONDENSATION

Use of insulation and of air conditioning increases the possibility of condensation in building walls during cold weather. Tighter construction, by not allowing moisture to evaporate to the outdoors, also builds up higher relative humidities and increases the danger of harmful condensation within the walls. Under such conditions it is advisable

Copper Vapor Seal has been fastened to inside of studs over insulating material. As this room will be plastered, metal lath is shown partially applied (at top) over the copper.

to provide a vapor seal on the inside of the studding as well as a weatherproofing shield under the outside covering, particularly masonry veneer or stucco.

The preceding picture shows the application of "Electro-Sheet" Copper to the inside edge of the studs to serve as a vapor seal. Applied as indicated, with all laps tightly clamped, an impervious barrier is provided through which moisture-laden air cannot percolate to condense its vapor as water in the walls. At the same time this inside seal gives added protection against infiltration with a consequent saving in fuel.

CELLAR DAMP-PROOFING AND WATER-PROOFING

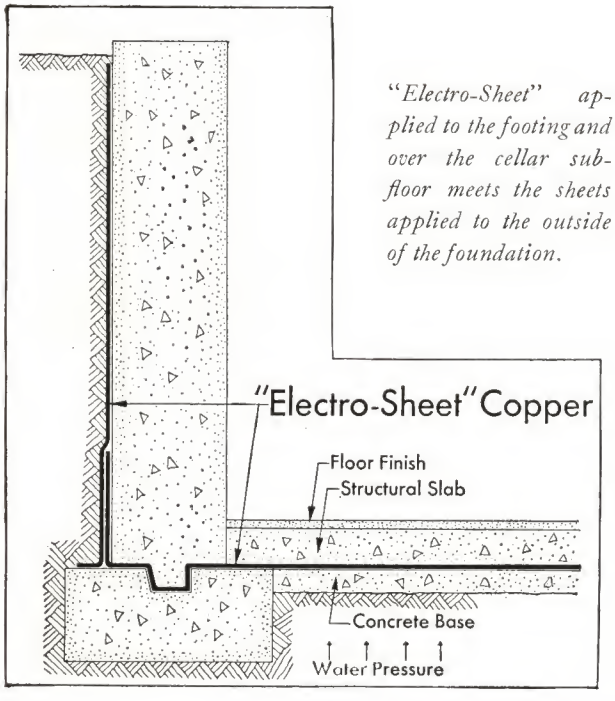
The most effective method of cellar water-proofing is the application of sheets or layers of water-proof material on the outside of the cellar walls. This keeps the masonry dry, resulting in a minimum of movement in the structural materials.

"Electro-Sheet" Copper is ideally suited for this use, because it is rust-proof, strong,

Applied with suitable mastic, this pure copper weighing 2 ounces per square foot is being securely bonded to the outside of foundation wall.

ductile and can be applied readily. For water-proofing where a hydrostatic head exists, two plies of 2 oz. "Electro-Sheet" are usually applied with pitch, asphalt or other mastic. Where only damp-proofing is wanted, one ply should be sufficient. The "Electro-Sheet" is also applied to the concrete footing before the foundation wall is laid, extending through to join the "Electro-Sheet" water-proofing laid between the cellar sub-floor and the finished floor. This should provide complete protection against water and dampness entering the cellar.

"Electro-Sheet" plain or bonded to building paper will keep air and moisture from penetrating the walls.



"Electro-Sheet" applied to the footing and over the cellar subfloor meets the sheets applied to the outside of the foundation.

Architect Praises "Electro-Sheet"

. . . In the building of a frame house in Mariemont, Ohio, "Electro-Sheet" Copper weighing one ounce per square foot was installed between wall sheathing and siding, roof sheathing and shingles, and under the attic floor. The architect for this house has since written:

"During zero winter weather, this house is very easily heated with a hot water system for an insulated house of this size. Also, during the summer, when temperatures hover around 100 degrees, or higher for more than a week, the occupants state that the interior of the house is quite cool and comfortable. I can freely recommend copper used in this manner as a very economical means of preventing heat losses."

TERMITE-PROOFING

The most effective safeguard against termite damage is a copper shield inserted between the masonry foundation and sills. This shield, where it extends beyond the foundation wall, should be bent down at a 45° angle allowing a minimum of 2 inches between the edge of shield and the foundation.

Copper weighing 16 to 20 oz. per sq. ft. (the heavier is less liable to mechanical injury) has been used for some time in this manner. The material is relatively inexpensive, easily applied, highly effective and permanent. Any experienced sheet metal contractor can form and install copper termite shields.

For complete information on termite destruction and detailed methods for applying Copper safeguards, address The Copper and Brass Research Association, 420 Lexington Avenue, New York, N.Y.

WINDOWS and WEATHERSTRIPS

BRONZE WINDOWS NOW AVAILABLE AT ATTRACTIVE PRICES

WITH ATTENTION focused on heat conservation, insulation, air conditioning and other related subjects which all have a bearing on health, comfort and economy, the window rightly comes in for more and more scrutiny. For poorly fitted windows will set to naught the efficiency of thorough wall insulation. Primary requisites of the modern window are 1. Permanently tight, accurate fit; 2. Easy operation; 3. Maximum vision. Hence metal windows, particularly those of bronze, come into their own. Today standardization of design and increased production have resulted in attractive prices for bronze windows.

Both double hung and casement type windows are now available in enduring Bronze. Most of these are sold as a unit, complete with weatherstripping and glazing. Some double hung bronze windows compare favorably in price with ordinary wood windows. All offer definite advantages, and in general it may be said that durability, freedom from upkeep expense and important fuel savings more than make up for whatever slight extra investment is made in bronze windows.

BRONZE SASH CHAINS

Double hung windows are usually counterbalanced by sash weights at the end of ropes or chains operating over pulleys. Bronze sash chain is not expensive . . . yet it can never fray, rot or rust. Once installed, bronze chains insure smoother, easier operation—not for just a few years, but indefinitely.

BRONZE WEATHERSTRIPPING

Reliable authorities estimate that from 20% to 40% of heating costs are wasted every winter unless windows and doors are properly weatherstripped. Without weatherstripping, heat leaks out and cold seeps in—whether the windows are wood or metal. (For air-conditioned buildings, weatherstrips are a necessity). Surely you can't afford this waste, and surely you want the even, comfortable, *healthful* temperature you can maintain by weatherstripping.

And remember that careful, accurate installation of strips is all-important. If they aren't tight, and don't stay tight year after year, their inefficiency reduces your saving. For the best and longest service, use bronze.

Bronze weatherstrips can't rust, can't disintegrate. Tough and strong, they provide lasting "spring" qualities and the greatest resistance to accidental damage.

Anaconda Bronze is standard with leading manufacturers of metal weatherstrip. It is guaranteed by some for the life of the building.

For weatherstripping doors, extruded bronze saddles at the base add the finishing touch to the ideal job. They look well; they are tough, long wearing and efficient.

INSECT SCREENS OF BRONZE

Guard Your Health and Save Your Money

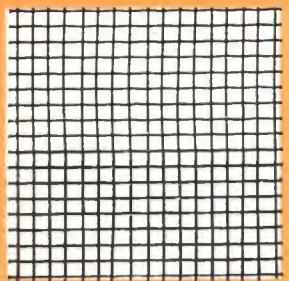
FROM the standpoint of expense, screens of Bronze Wire are the most economical you can use. Remember that screen wire is very fine and quickly rusts through if made of rustable metal. That is why well-built homes everywhere are equipped with screens of bronze wire. Bronze is strengthened copper. It cannot rust. Bronze Screens remain trim and tight for years with a minimum of attention—they do not even require painting.

Instances are not exceptional where bronze screens have been in service for 30 years and are still in good condition. It may be conservatively stated that the life of Bronze Screening is limited only by accidental breakage. Yet its cost is so low (only about 40c more than rustable screening per full-window), that it pays for itself many times over during its long years of service.

Screens with bronze frames are readily available from leading manufacturers. Although costing more than wood frames, bronze frames can never warp or split, never need painting. They add a note of richness and distinction, not only when they are new but season after season—indefinitely.

RUSTABLE SCREENING

Exposed side by side for the same length of time, the condition of this screen cloth speaks for itself. At the end of the test, the bronze was good as new.



BRONZE SCREENING

WARNING!

Insist on Standard Weight Bronze Screen Cloth

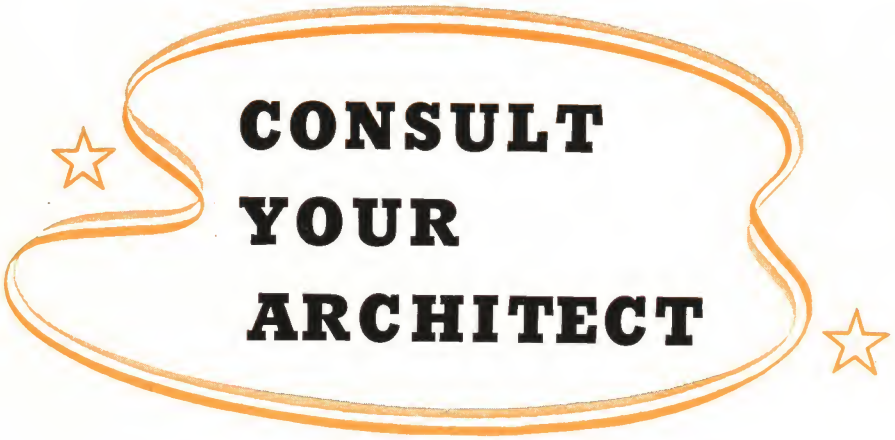
IN RECENT YEARS there has been an increasing amount of sub-standard bronze screen cloth made and sold in the United States. Although it represents only a relatively small portion of the total, the danger of obtaining it unknowingly is ever-present. So make certain that your bronze screen cloth is made of wire which measures .0113 inches in diameter. This is the standard set in specifications of the U. S. Government and the Wire Screen Cloth Manufacturers' Institute. Cloth made of this standard wire, woven 16 meshes to the inch, weighs 15 pounds per 100 square feet. Some sub-standard screening weighs but 9½ pounds per 100 square feet—a slightly better grade 12 pounds. The strength of each individual strand of wire is of course in direct proportion to its weight.

The American Brass Company does not make screens or screen cloth, but as the leading manufacturer of Bronze Wire for use in the fabrication of screen cloth, we naturally wish to safeguard the reputation of Bronze for "lifetime" service. We are convinced that while sub-standard bronze screen cloth will satisfactorily resist corrosion, it lacks the physical strength to withstand the abuse to which all screens are occasionally subjected.

In your own interest, be sure that *your* bronze screen cloth is made of standard gauge wire—that "16-mesh" screening weighs 15 pounds per 100 square feet.

Only Standard Weight Bronze Screen Cloth

- Lies flat—does not bulge and twist
- Has a firm, solid "feel"—is easier to handle and frame
- Is a high strength material—does not dent easily
- Gives the long, expense-free service to be expected of bronze
- Weighs 15 lbs. per 100 sq. ft. in 16 mesh cloth



FROM THE VOLUME of material presented between the covers of this book, it must be apparent to most homebuilders that the maze of new developments and improved building practices require the advice, consultation and planning which only an experienced architect can give. This has never been more true than it is today. For who better than your architect can coordinate all the information on hundreds of structural and engineering advancements, can tell you what is right, what is advisable, and then mold all desirable items into a unified whole—a house planned and built according to your taste—with everything considered in relation to everything else, and nothing left to chance.

ANACONDA METALS

No one will question that the better a house is built, the longer it will last, and the less it will cost for maintenance and repair in the years that lie ahead. In building, we urge you to consider this carefully, and to discuss it with your architect, builder and contractors. For sound construction goes beneath the surface to unseen things, where so often metals less durable than copper or brass prove far more costly in the end.

FURTHER INFORMATION

You can get complete information on any Anaconda product by writing to THE AMERICAN BRASS COMPANY, GENERAL OFFICES, WATERBURY, CONNECTICUT, or to any of the district offices and agencies listed on the following page.

THE AMERICAN BRASS COMPANY

General Offices: WATERBURY, CONNECTICUT

ANACONDA
from mine to consumer

MANUFACTURING PLANTS

ANSONIA, CONN. . DETROIT, MICH. . TORRINGTON, CONN.
BUFFALO, N. Y. . KENOSHA, WIS. . WATERBURY, CONN.

OFFICES AND AGENCIES

ATLANTA, GA.	66 Luckie Street
BOSTON, MASS.	140 Federal Street
BUFFALO, N. Y.	70 Sayre Street
CHICAGO, ILL.	1326 W. Washington Blvd.
CINCINNATI, OHIO	101 West Fourth Street
CLEVELAND, OHIO	2906 Chester Avenue
DENVER, COLO.	818 Seventeenth Street
DETROIT, MICH.	174 Clark Street, S.
HOUSTON, TEXAS	6614 Harrisburg Blvd.
KENOSHA, WIS.	1420 Sixty-third Street
LOS ANGELES, CALIF.	601 West Fifth Street
MILWAUKEE, WIS.	229 East Lincoln Avenue
NEWARK, N. J.	744 Broad Street
NEW YORK, N. Y.	25 Broadway
PHILADELPHIA, PA.	111 West Norris Street
PITTSBURGH, PA.	1228 Brighton Road
PROVIDENCE, R. I.	200 Chestnut Street
ROCHESTER, N. Y.	170 Wimbledon Road
ST. LOUIS, MO.	408 Pine Street
SAN FRANCISCO, CALIF.	235 Montgomery Street
SEATTLE, WASH.	1338 Fourth Avenue
SYRACUSE, N. Y.	207 East Genesee Street
WASHINGTON, D. C.	1511 K Street, N. W.
WATERBURY, CONN.	414 Meadow Street

WAREHOUSES

CHICAGO, ILLINOIS	1326 West Washington Boulevard
CLEVELAND, OHIO	2906 Chester Avenue
MILWAUKEE, WISCONSIN	229 East Lincoln Avenue
PHILADELPHIA, PENNSYLVANIA	111 West Norris Street
PROVIDENCE, RHODE ISLAND	200 Chestnut Street
THE AMERICAN BRASS COMPANY OF TEXAS	6614 Harrisburg Blvd., Houston, Texas

IN CANADA:

ANACONDA AMERICAN BRASS LIMITED, *Manufacturing Plant & General Offices*, New Toronto, Ontario

MONTREAL OFFICE: 1010 St. Catherine Street, West

ANACONDA PRODUCTS INCLUDE

COPPER · BRASS · BRONZE AND NICKEL SILVER

in every variety of SHEETS, WIRE, RODS *and* TUBES

5-39

Printed in U.S.A.

ANACONDA

COPPER BRASS & BRONZE

Throughout Your Home

ROOFING

WATER PIPES

HEATING LINES

HOT WATER TANKS

SCREENS

WEATHER-PROOFING

DAMP-PROOFING

THE AMERICAN BRASS COMPANY

GENERAL OFFICES • WATERBURY • CONNECTICUT

YOUR HEALTH YOUR COMFORT

REQUIRE MODERN HEATING and PLUMBING

A Bathroom like this is a Joy Forever

The luxury of a modern bathroom in a beautiful, colorful setting is an invitation to enjoy it and be refreshed.

Yes, this is the health center of the home—where greater bodily comfort and a feeling of well being await you and your family.

It is also the beauty center of the home where delightful, convenient new fixtures constantly contribute to personal appearance.

The benefits of a "Standard" modern bathroom justify an immediate decision to have one. Consult your Master Plumber today.

Know the Pleasure of Modern, Convenient Heating

AMERICAN Heating Equipment provides mild, sunlike warmth in every room. It keeps the floors warm so children can play without discomfort. It affords protection against colds by eliminating drafts and uneven temperatures. Automatic firing and precise regulation banish all manual care.

AMERICAN RADIATOR & Standard Sanitary
CORPORATION
NEW YORK PITTSBURGH

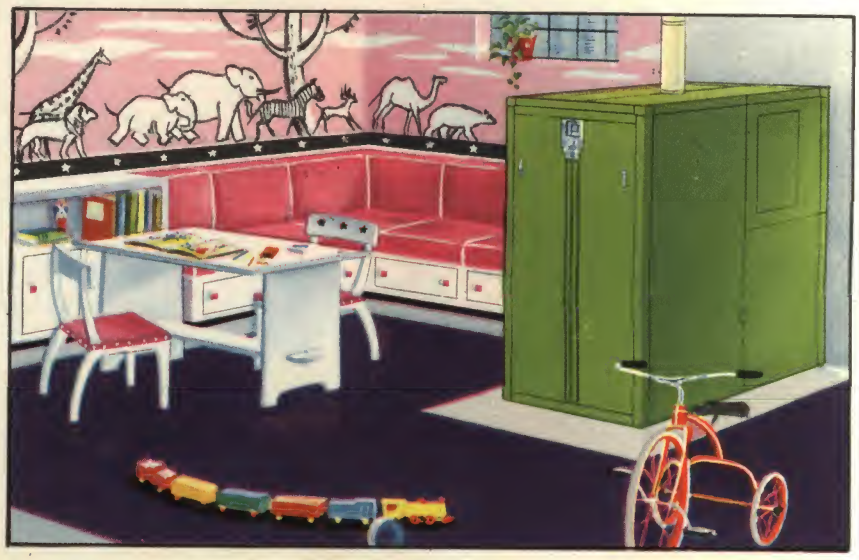
REAL HOME COMFORT BEGINS WITH

You can have attractive Basement Rumpus Rooms with this Modern Heating

Many hours of pleasure await you in a modern basement—planned to fit your needs. As a rumpus room for informal entertainment—a playroom for lively games—a workshop or hobby room—or a gymnasium, your basement has great possibilities for fun and enjoyment.

The key to enjoyable basement space is a clean and compact heating plant: The No. 11 Arcoflame Heating Unit in basement at top of page and Sunbeam Air Conditioning Unit at right illustrate the possibilities. Both products are ideal for this purpose because of their attractive, baked enamel jackets, tightly fitted doors and careful design, which insure cleanliness and prevent the escape of dust or soot.

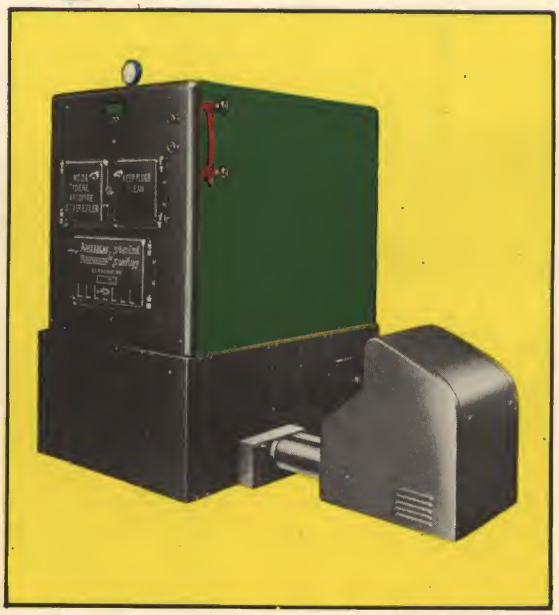
American Heating Equipment offers a wide range of choice. There are products for every kind of fuel, to fit every purse and to suit any need. Your Heating Contractor will gladly give you the benefit of his long experience to help select the right size and type for your home.



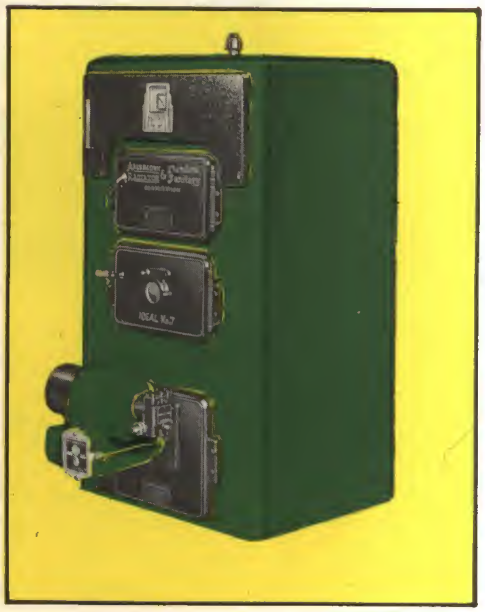
The No. 11 Arcoflame Automatic Heating Unit makes this basement room invitingly comfortable.

Attractive rumpus rooms like this easily achieved with Sunbeam Air Conditioning Systems.

IDEAL REDFLASH BOILER. Probably America's best known boiler. Low in price but high in quality and service. Thoroughly insulated under its baked enamel jacket.



ARCOFIRE STOKER BOILER. Designed to be used for automatic firing with any standard stoker. Has the unique "Diving Flue" that consumes smoke and reduces fly-ash for better performance and greater fuel economy.



ARCOFLAME HEATING UNIT No. 7. Combines automatic oil heat with Taco-Abbott year 'round hot water supply. Outstanding efficiency, economy and appearance.

PROPER HEATING EQUIPMENT....

The luxury of Automatic Heating

A touch of your finger and, like magic, the temperature you want is constantly and uniformly maintained while you take life easy! Automatic heating is unquestionably one of the greatest contributions that science and industry have made towards greater home enjoyment by eliminating manual attention and care. Few things you can buy will give you so much pleasure per dollar of cost. Ask your Heating Contractor about the various types of AMERICAN Equipment for automatic heating using coal, oil or gas.

Plenty of hot water

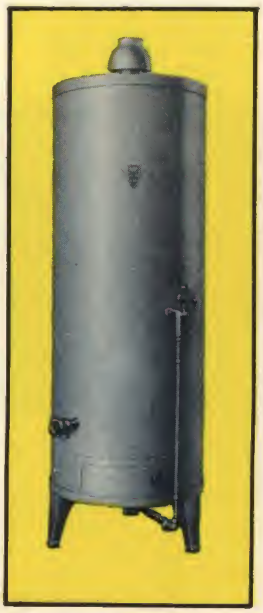
There is no substitute for the convenience and healthfulness of constant hot water for every household purpose. Your hot water supply can be economically a part of your radiator heating system, and supply year 'round hot water, or you can get separate Ideal Hot Water heaters from simple shovel-a-day coal-burning types to automatic gas-fired storage heaters. Ask your Heating or Plumbing Contractor.

Add charm to the window ensemble

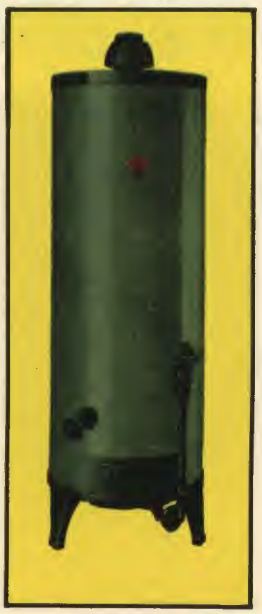
Attractive Arco Enclosures will add to the beauty of your window treatment and at the same time maintain the high heating efficiency of the radiators. Arco Enclosures come in a wide selection of sizes and styles to fit your needs.

AMERICAN HEATING EQUIPMENT COSTS NO MORE THAN OTHERS

EMPIRE IDEAL GAS FIRED BOILER
For effortless, economical gas heating. Completely automatic. All controls enclosed in handsome gun metal enameled jacket.

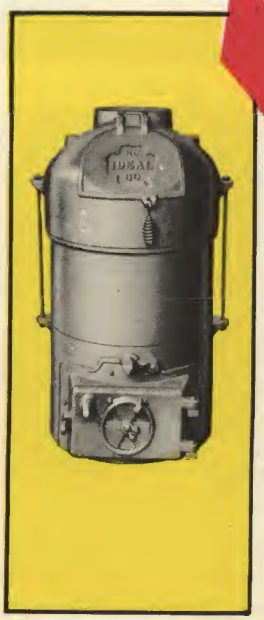


AGP DICTATOR

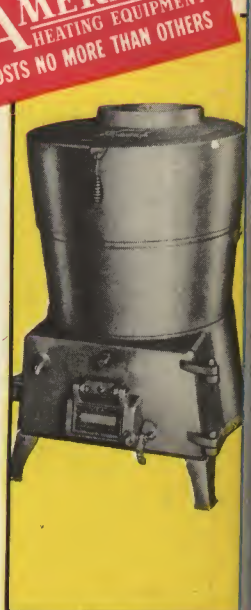


AGP CLIPPER

Gas Fired Automatic Storage Water Heaters
A complete line—15 to 75 gallons capacities. Supply abundant hot water at low cost and without attention.



DOME TYPE WATER HEATER — A popular water heater for economical coal burning.



SCUTTLE - A - DAY WATER HEATER—Coal fired. Supplies abundant hot water.

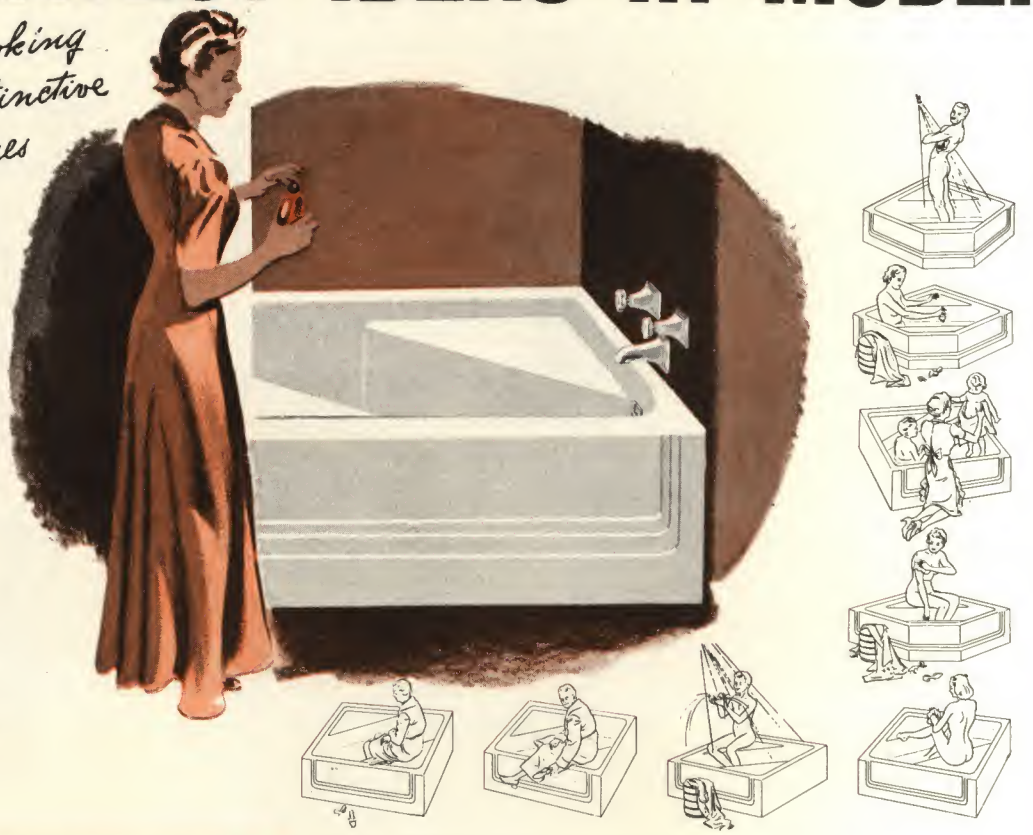
NEWEST IDEAS IN MODER

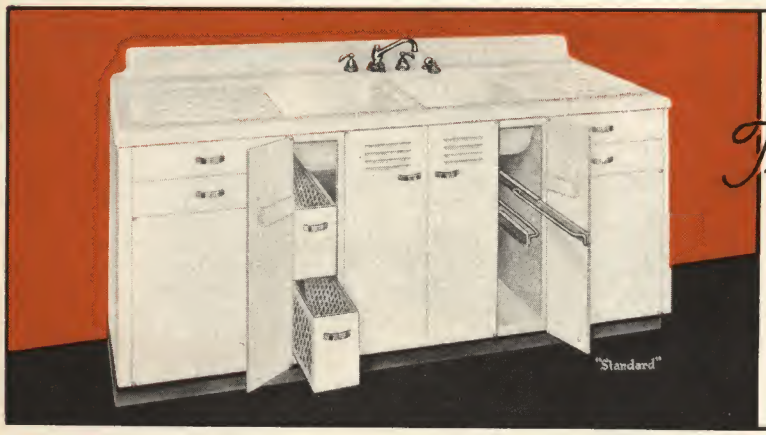
Neo-Angle . . . this smart looking Bath gives you Eight Distinctive Bathing Features

The "Standard" Neo-Angle Bath combines attractiveness of design with many exclusive features.

Ignoring tradition, the Neo-Angle Bath is square in shape with the tub running diagonally from one corner to another. This allows a full length bath, two convenient corner seats and a refreshing shower all within a space only four feet square.

A few of its comforts are: a refreshing shower standing safely on the wide flat bottom; a spacious, full length, extra width tub; a child's bath; a seated sponge bath; plenty of room; a relaxing seated shower or rinse; a safe, easy way of entering or leaving; a convenient foot bath.





The New Hostess Sink

This, we believe, is the finest sink made. It has double drainboard, double sink compartment, concealed hose for spray, ingenious storage arrangements including vegetable drawers and concealed towel racks. The faucet, strainer and trap have the famous Chromard Finish. Besides the 72 inch model shown here which is adequate for the elaborately equipped and most efficiently planned kitchen there are three other models, all of which utilize every square inch of working space.

HOW ONE MAN'S BASEMENT BECA

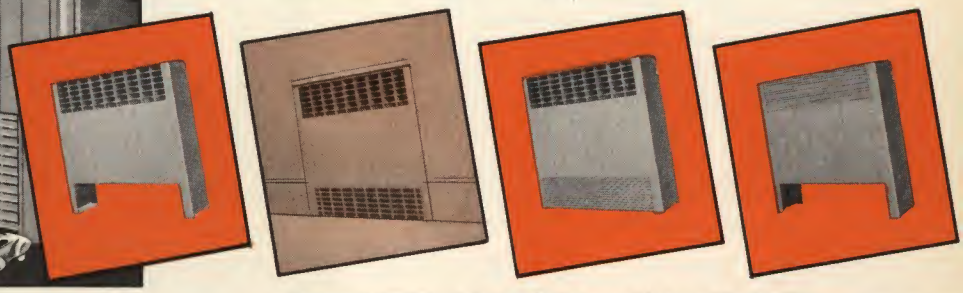
The Jones' found that a growing family needs room for many activities. Junior riding his tricycle in the living room was not good for either the family or the furniture. Their basement offered no solution until they saw pictures of what another family had done. Of course! Replace the old heating plant with a modern one and they would be rid of the dirt and gain the additional space needed! So they called their Heating Contractor, selected just the kind of AMERICAN Heating Equipment they wanted, and arranged

RN HEATING AND PLUMBING

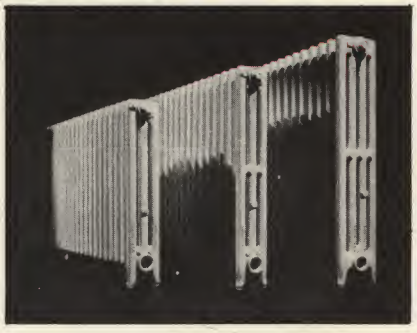
Sunrad Radiator—recessed. Streamlined grille top and bottom.

The New Sunrad combines the best advantages of convected and radiant heat

The new Sunrad is designed to give the maximum of sun-like radiant heat which is so important for comfort at floor and living levels. It also emits a curtain of rising warmed air to shut out cold window drafts. The Sunrad is attractively simple in design and blends with any style of decorative treatment. It can be fully or partly recessed, or installed free standing. Its cabinet-like exterior makes it attractive without an enclosure, but if desired handsome grilles as illustrated are available at very little cost.



Various treatments of Sunrad Radiators—with and without grilles.

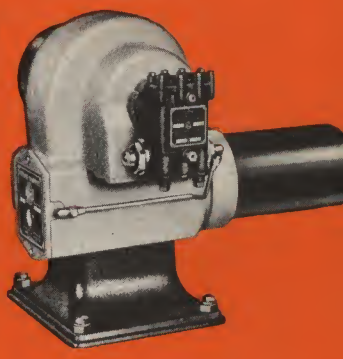


WINDOW WARMTH AND PLENTY OF HEAT ALL OVER THE HOUSE

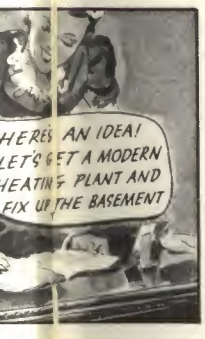
No matter how hard the wind blows an AMERICAN Radiator under the window insures warm window areas and warm floors free from cold drafts. Moreover, distribution of heat is easily adjusted to give uniform temperatures in every room. The completeness of the line of AMERICAN Radiators and Enclosures makes it easy to choose the best type for each purpose.

Arcoflame

automatic-effortless oil heating



The Arcoflame Oil Burner offers new high standards in oil heating efficiency. Its exclusive Turbometer produces a perfect "Sunflower" flame—a clean-burning flame that whirls every last drop of oil into heat. Exceptionally quiet in operation, the Arcoflame is built for years of carefree economical service.

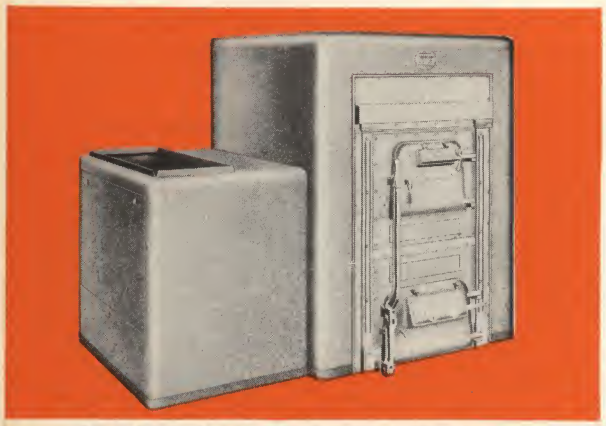


CAME THE FAMILY PLAYGROUND

for easy monthly payments. Mrs. Jones is delighted because Junior's toys are all out of the way in the basement playroom and she no longer is bothered with dirt from the old basement. Junior is happier, because he can romp to his heart's content and Mr. Jones beams every time he thinks of the labor and fuel-saving. Besides, there is the fun of lively games for the grown-ups, especially when good friends drop in.

SUNBEAM AIR CONDITIONING

Healthful, Automatic Home Comfort — at Low Cost



COAL FIRED Sunbeam Air Conditioner. Has handsome green crystalline baked enamel casing. The steel heating element is permanently sealed leak-proof against fumes and soot by riveting and welding. Also made in a stoker fired model.

GAS FIRED Sunbeam Air Conditioner. Is 100% automatic. Is equipped with the latest temperature and safety controls. All pipes, wires and regulators are concealed inside the two-tone green enamel casing.

OIL FIRED Sunbeam Air Conditioner. Designed for oil burning exclusively. Equipment includes an efficient oil burner coordinated with the conditioner. Casing is green crystalline baked enamel.

FOR EVERY HOME—LARGE OR SMALL—NEW OR OLD MODELS FOR ALL FUELS . . . COAL—GAS—OIL . . .

The air in the Sunbeam Conditioned home is always comfortable and healthful. The temperature is maintained at the degree you find most desirable. An automatic humidifier keeps the air properly moistened. Efficient filters trap dust, dirt, lint, pollen, germs and other foreign matter. And this warm, thoroughly conditioned air is circulated uniformly to all parts of every room.

The Sunbeam is economical to buy and it saves you money by reducing cleaning and redecorating expense and by minimizing fuel costs.

Whether your home is large or small, new or old, there is a Sunbeam Air Conditioning Unit of the proper size and at the right price to meet your requirements. There is a model specially designed for the fuel you wish to burn—coal, oil, gas.

At Right: SUNBEAM WARM AIR FURNACE
Made in a wide range of sizes and prices. There are cast iron and steel models for all fuels—coal, oil, gas.

AMERICAN HEATING EQUIPMENT COST NO MORE THAN OTHERS "Standard" PLUMBING FIXTURES

AMERICAN RADIATOR & Standard Sanitary CORPORATION

NEW YORK PITTSBURGH

MODERNIZE ON TIME PAYMENTS

You can install AMERICAN Heating Equipment and "Standard" Plumbing Fixtures on monthly payments for as low as $5.00. No down payment—3 years to pay—no red tape—no mortgages—no endorsers. Your Heating and Plumbing Contractor takes care of all detail.

Copyright July 1939, American Radiator & Standard Sanitary Corporation.

Armstrong's

LINOLEUM · LINOWALL · ASPHALT TILE

ARMSTRONG CORK COMPANY · · · LANCASTER, PENNSYLVANIA

SMALL KITCHENS LOOK LARGER when the floor is planned to give the illusion of size. For example, Pattern 5610 in Armstrong's Embossed Inlaid Linoleum makes the whole kitchen look roomier. The top of the corner table is covered with linoleum; and the walls are covered with Armstrong's No. 732 Dove Gray Linowall

Cover Illustration: A rich burgundy floor of Armstrong's Embossed Inlaid Linoleum No. 6284 is set off attractively with a plain eggplant border in this dignified but richly colorful Swedish dining-room. The walls are Armstrong's Temlok De Luxe. A list of furnishings in these rooms will be sent you free.

Copyright, 1939, Armstrong Cork Company, Lancaster, Pa.

Room Planning is easy

WHEN YOU START WITH ARMSTRONG'S LINOLEUM

Many folks who write to us for help on planning attractive rooms seek answers to the same questions on linoleum. Below we've listed the questions that occur most frequently, together with the answers of our decorating experts. We hope this story in quiz form will give you the right start to your color schemes.

ARE LINOLEUM FLOORS EXPENSIVE?

Linoleum floors are only slightly higher in first cost than other fine floors, but they save you money in the long run because they never require expensive refinishing to keep them attractive.

ARE LINOLEUM FLOORS SANITARY AND EASY TO CLEAN?

Yes, see page 5 for details.

HOW LONG WILL A LINOLEUM FLOOR LAST?

Armstrong's Linoleum Floors have been in service fifteen to twenty years or even longer. Improved manufacturing methods should mean even longer life for linoleum being made today. Armstrong's Linoleum is manufactured to specifications even more rigid than U. S. Government standards.

CAN RUGS BE USED WITH LINOLEUM?

Certainly. Linoleum is a flooring, not a floor covering. Rugs should be used with it, as with any other flooring. The handsome colors in a linoleum floor bring out the rich beauty of color in fine rugs. Linoleum can be used without rugs, of course; a feature that makes it desirable where the buying of rugs must be postponed, or when rugs are stored during the hot summer months.

HOW MANY KINDS OF LINOLEUM ARE THERE?

There are seven main types: Plain, Jaspe, Marbelle, Monobelle, Embossed Inlaid, Straight Line Inlaid, and Printed. Some of these are illustrated on pages 6 and 7. Your Armstrong dealer will be glad to show you many other attractive colors and patterns.

WILL THE COLORS WEAR OFF LINOLEUM?

Except in Printed linoleum, the handsome colors run through the full thickness of the composition. Therefore, they will last as long as the linoleum itself.

IN HOW MANY THICKNESSES IS LINOLEUM MADE?

There are five thicknesses: 6 mm. (about ¼-in.); 3/16-in.; Heavy (⅛-in.); Medium (3/32-in.); and Standard (5/64-in.) gauges. These provide for every floor requirement and every budget.

IS LINOLEUM CORRECT FOR LIVING-ROOMS, DINING-ROOMS, BEDROOMS, ENTRANCE HALLS, AND OTHER ROOMS BESIDES KITCHENS AND BATHROOMS?

Yes, Armstrong's Linoleum is being used for every room in the house by many of the country's leading architects and interior decorators.

ARE LINOLEUM FLOORS IN GOOD TASTE FOR PERIOD ROOMS, SUCH AS SPANISH, EARLY AMERICAN, COLONIAL, ENGLISH, SWEDISH, MODERN, ETC.?

Yes. Properly chosen linoleum floors harmonize with every style of interior decoration.

AREN'T LINOLEUM FLOORS COLD?

Floors tend to assume the temperature of the room. Linoleum is as warm as any other flooring; and because it is practically a one-piece floor, it does not permit drafts to come in through the floor boards. Also, because it is laid over lining felt, linoleum retards the escape of heat into cold basements.

SUPPOSE NONE OF THE STANDARD PATTERNS SUITS ME?

If you cannot make a selection from Armstrong's standard patterns, you can create individualized effects with Armstrong's Custom-Craft design elements. See page 8 for suggestions.

DOES HEAVY FURNITURE DENT LINOLEUM?

Although linoleum is resilient, heavy furniture should always be supported on furniture rests of the type recommended by Armstrong. These are sold by most stores handling linoleum.

WHAT IS THE BEST WAY TO INSTALL LINOLEUM?

Over wood subfloors, linoleum should be cemented to a layer of Armstrong's Lining Felt, which in turn is pasted to the wood base. Where water is likely to be spilled, the seams should be protected with Armstrong's Waterproof Cement.

CAN LINOLEUM BE LAID OVER SUSPENDED CONCRETE OR METAL FLOORS?

Yes. The use of Armstrong's Lining Felt over suspended concrete subfloors is optional, but desirable.

ARMSTRONG'S LINOLEUM FLOORS WILL MAKE YOUR FINEST RUGS EVEN MORE ATTRACTIVE

If you wonder whether rugs can be used with a linoleum floor—be assured that it is perfectly proper to do so. By choosing a linoleum floor that is in harmonizing or contrasting colors, you can make any good rug seem considerably more attractive than is possible with other floorings.

WHY IS LINING FELT NECESSARY?

At different seasons of the year, floor boards expand and contract. If the linoleum were cemented direct to these boards, the movement might tear the linoleum or cause it to buckle. Lining felt takes up the movement of the boards and thus protects the linoleum. It also makes the floor warmer, quieter, and more comfortable underfoot.

CAN LINOLEUM BE LAID IN BASEMENTS—OR OVER WOOD OR CONCRETE FLOORS THAT ARE IN DIRECT CONTACT WITH THE GROUND ON GRADE?

Linoleum is not recommended because of the dampness that is likely to be present in such floors. Armstrong's Asphalt Tile is the only type of resilient flooring recommended for these areas.

WILL LINOLEUM CURL AT THE SEAMS AND WILL THE SEAMS BE CONSPICUOUS?

Properly installed linoleum will not curl, and the seams will be practically invisible. Because rolls of linoleum are six feet wide and about ninety feet long, few seams will be necessary when the material is installed in a room of ordinary size.

SHOULD LINOLEUM FLOORS BE INSTALLED WITH BORDERS?

Borders are not essential but they are usually desirable. To make the creation of simple borders inexpensive, Armstrong offers ready-cut border strips and Linostrips in several convenient sizes.

IS LINOLEUM A QUIET FLOORING?

Yes. A resilient linoleum floor is quieter under impact and footsteps than hard flooring.

HOW SHOULD A LINOLEUM FLOOR BE FINISHED AT THE BASEBOARDS?

Any type of baseboard may be used; but Armstrong's Flash Type Cove and Base is recommended. This device provides an attractive curved joining of the floor and wall, thus preventing dust from collecting and also making sweeping easier. It is offered in colors to harmonize with linoleum and Linowall.

CAN LINOLEUM BE REMOVED AND REUSED?

Yes, if it is pasted over Armstrong's Lining Felt.

CAN I LAY LINOLEUM MYSELF?

We do not recommend it. Linoleum laying requires skill and a large assortment of special tools. It is more economical and more satisfactory to have the work done by an experienced Armstrong merchant, in accordance with standard Armstrong specifications.

CAN LINOLEUM BE BOUGHT DIRECT FROM ARMSTRONG?

No. Armstrong's Linoleum is sold through department and furniture stores, by floor contractors, and in specialty shops. For the names of local merchants, write to Armstrong Cork Company, Floor Division, Lancaster, Pa., or ask your architect or builder.

WHERE CAN MY ARCHITECT OR BUILDER FIND OUT MORE ABOUT ARMSTRONG'S LINOLEUM?

Refer him to *Sweet's Architectural Catalog* or to the *Builder's Supplement of Home Owners' Catalogs.* We shall also be glad to mail him additional information on any of our products.

I LIKE LINOLEUM, BUT FOR FINANCIAL REASONS HAVE TO POSTPONE BUYING IT FOR A FEW YEARS. ARE THERE ANY OTHER ARMSTRONG FLOORS LOWER IN COST?

Armstrong offers Linoflor, and Quaker and Standard Rugs and Floor Coverings, suitable where utmost economy is essential, or for temporary installation. Although these products are not linoleum, they are smooth surface materials in attractive colors. Your Armstrong dealer will be glad to show them to you.

LINOLEUM FLOORS SAVE HOURS OF HOUSEWORK

Whether you do your own housework or employ servants, an Armstrong's Linoleum Floor will mean more time for other activities. If there are children or pets in the house, you will find that the ease of cleaning linoleum is a doubly welcome feature.

WHAT CARE DOES A LINOLEUM FLOOR REQUIRE?

If a linoleum floor is kept properly waxed with Armstrong's Linogloss Wax, which requires no rubbing, daily dusting will keep it clean and attractive for months. Even in kitchens, a properly waxed linoleum floor requires comparatively few washings.

When washing is necessary, Armstrong's Floor Cleaner will make the work easier because it was specially developed for cleaning linoleum safely and quickly. If spilled things are wiped right up, the number of washings can be considerably reduced.

By using Armstrong's Flash Type Cove and Base to form a rounded joining of floors and walls, you can prevent dust from collecting in corners.

DO LINOLEUM FLOORS HAVE TO BE REFINISHED?

No. Armstrong's Linoleum never requires scraping, sanding, or other costly, troublesome refinishing.

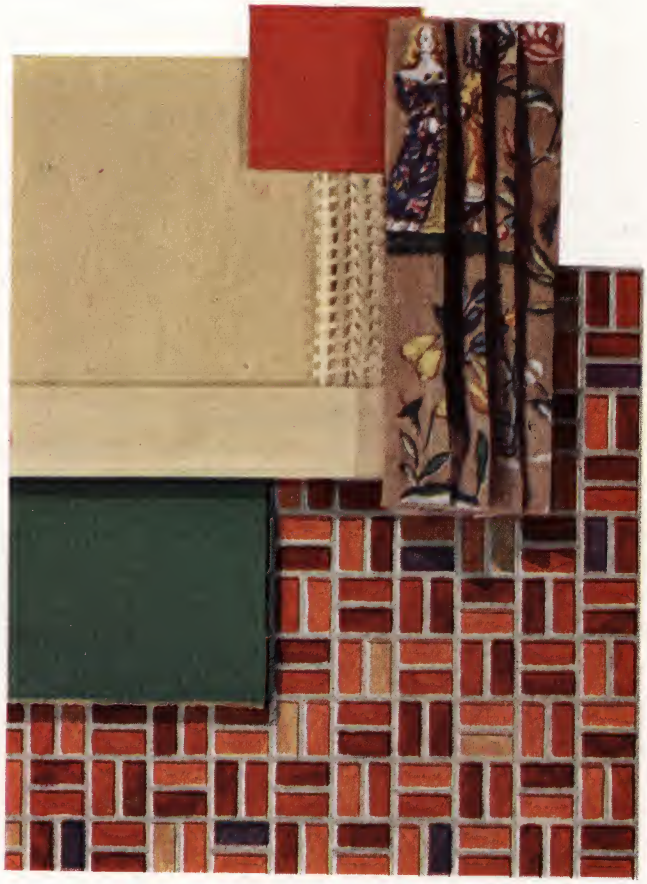
CAN LINOLEUM BE USED AROUND TUBS, SINKS, AND OTHER FIXTURES WHERE WATER IS SPILLED?

Yes. Any seams at these points are made waterproof when the linoleum is being installed. Spilled water should be wiped up as quickly as possible, however.

IS LINOLEUM MORE SANITARY THAN BOARD FLOORS?

Yes. There are no open cracks to collect dust and germs. The lining felt, the tightly cemented seams, and the large unbroken areas of linoleum prevent drafts from rooms below. (This is important where children play on the floor.) Many scientists believe that linoleum acts as a germicide; and many prominent hospitals are large users of linoleum floors.

OUR INTERIOR DECORATOR WILL HELP YOU PLAN YOUR COLOR SCHEMES

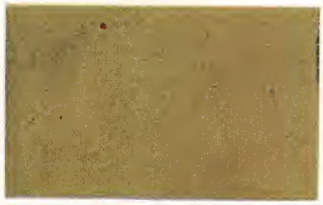


Without charge, the Armstrong Bureau of Interior Decoration will create complete color schemes for rooms using linoleum, Linowall, or asphalt tile. This service includes suggestions for draperies, upholstery, walls, rugs, and floor designs, as shown above. In requesting this service, state color preferences, size of rooms, exposure, purpose, etc. Include blueprints if possible.

HERE ARE A FEW ARMSTRONG'S LINOLEUM PATTERNS

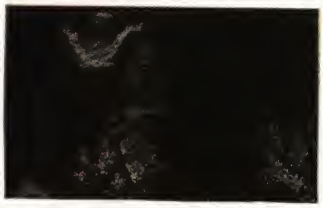
Willow Green No. 44

Cadet Blue No. 29

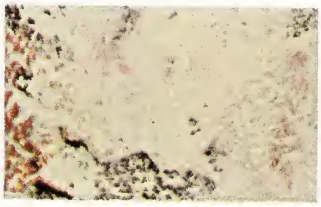


Fawn No. 45

Chinese Red No. 39

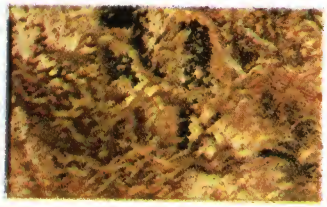


Marbelle No. 021

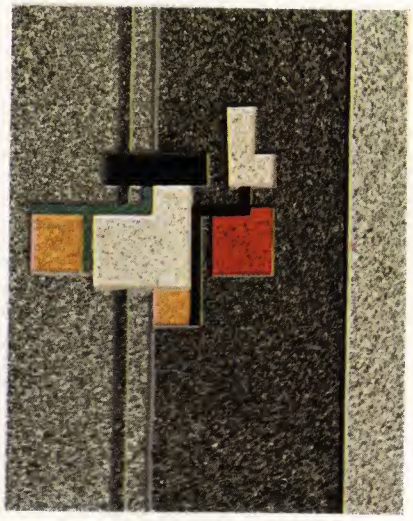


Marbelle No. 016

Marbelle No. 013



Marbelle No. 033



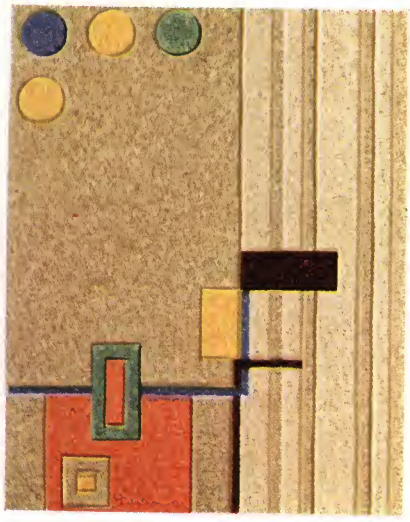
Embossed Inlaid
Standard Gauge, No. 5610

Embossed Inlaid
Standard Gauge, No. 5592

Embossed Inlaid
Standard Gauge, No. 5352

Embossed Inlaid
Heavy (⅛") Gauge, No. 6310

Embossed Inlaid
Medium Gauge, No. 3412

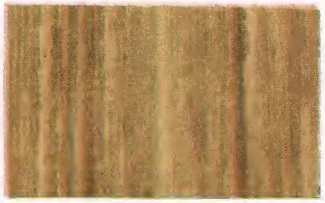


Embossed Inlaid
Medium Gauge, No. 3402

SEE OTHER DESIGNS AT YOUR DEALER'S STORE

Rust Jaspe No. 10

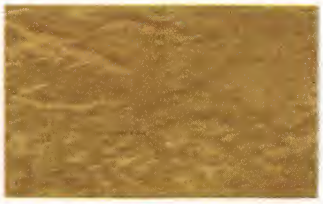
Apple Green Jaspe No. 011



Tan Jaspe No. 9

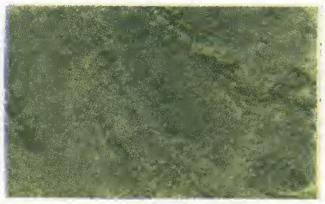
Azure Blue Jaspe No. 6

Monobelle No. 046



Monobelle No. 041

Monobelle No. 042



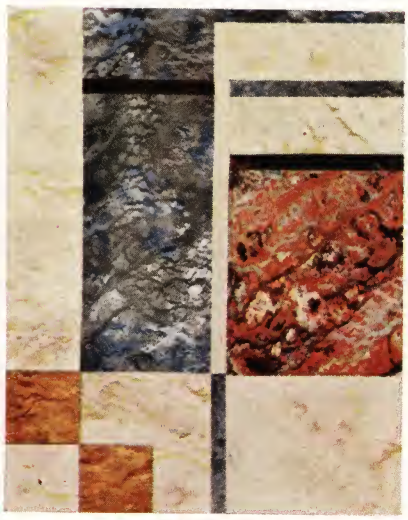
Monobelle No. 040

Straight Line Inlaid
Standard Gauge, No. 0367

Straight Line Inlaid
Standard Gauge, No. 0375

Straight Line Inlaid
Medium Gauge No. 14302

Straight Line Inlaid
Standard Gauge, No. 0416



Straight Line Inlaid
Medium Gauge, No. 14290

Straight Line Inlaid
Heavy (⅛") Gauge, No. 681

Custom-Craft Floors

PLAN NOW TO MAKE YOUR LINOLEUM FLOORS MORE INTERESTING WITH INSET DESIGNS

Any linoleum floor, or any wall covered with Armstrong's Linowall, can be made more attractive by insetting it with Linosets—i. e., decorative designs cut from harmonizing colors of linoleum.

Armstrong's Linosets, a few of which are shown here, make it possible to use inset designs even where building or remodeling budgets are extremely limited. Any one of these or other handsome Linosets can be installed quickly and inexpensively, by your linoleum merchant, in new or existing linoleum floors or Linowall.

These designs were created by the Armstrong Bureau of Interior Decoration, which for twenty years has been planning distinctive custom-built linoleum floors for architects, interior decorators, and home owners.

INSETS CAN BE MADE TO EXPRESS YOUR INDIVIDUALITY

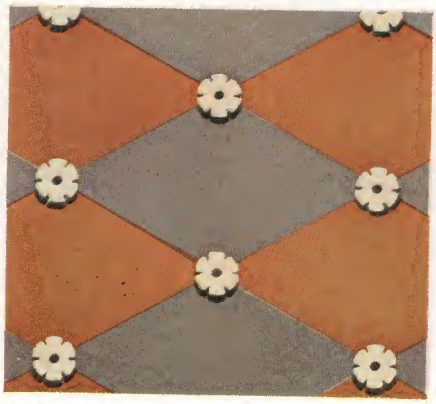
Below, you will notice a series of inset designs consisting of simple elements—circles, scrolls, petals, and rosettes—arranged in interesting combinations. If you prefer a highly individualized floor, you can combine these and other simple elements into a colorful design that is entirely of your own creation. Your local linoleum merchant will gladly assist you in the preparation of this design. There is a Custom-Craft linoleum floor to fit every interior and every pocketbook. Where even more intricate linoleum designs are desired, Armstrong merchants can supply them to order.

For instance, the linoleum in your reception hall could be inset with your coat-of-arms or monogram.

In nurseries or playrooms, a clever idea is to have silhouettes of interesting figures cut from different colors of linoleum and inset in the floor or Linowall.

In bathrooms, floors or walls can be inset with sailboats, tropical fish, water lilies, mermaids, or other nautical motifs. In upstairs recreation rooms, gameboard floors can be made from various colors of linoleum; in basements, from various colors of asphalt tile.

Typical linoleum inset. Field is eggplant; disc is deep rose; scrolls, pearl gray.



Against pearl gray and fawn diamonds, rosettes are white with dark gray centers.

Discs and petals form this inset. Colors are terra cotta, white, and chartreuse.

A CHEERFUL WELCOME starts with the floor in this attractive entrance hall. Something new and inexpensive in a floor of special design is offered here in Armstrong's Linoleum—Monobelle No. 043—with Custom-Craft insets of white and chartreuse. Monobelle is available in colors which combine well with your other furnishings. Like all linoleum floors, the one illustrated above is easy to clean and long-lasting.

Soilproof Linowall

PROVIDES PERMANENT WALL BEAUTY AT A SUBSTANTIAL SAVING

With Linowall, you can have a *permanent* wall covering that is soilproof and washable—at about *half* the cost of hard tile, marble, and other permanent materials. Linowall can be installed in almost any color or multicolor combination that you desire, either with or without the various kinds of inset designs that are described on pages 8 and 12.

WHAT IS LINOWALL?

Linowall is a linoleum-like wall covering. It consists of a smooth facing of inlaid composition securely bonded to a strong, flexible fabric backing.

HOW LONG WILL LINOWALL LAST?

Linowall is a truly permanent wall covering. Unless damaged by fire or harsh cleaners, or willfully defaced, it never has to be replaced. It does not crack or chip when bumped by furniture. It does not "craze"; and it withstands moderate settling of walls without cracking or buckling. No refinishing is required to keep Linowall neat, attractive, and in perfect condition for years of dependable service.

IS LINOWALL EASY TO CLEAN?

Since it is washable, Linowall is remarkably easy to clean. Its special factory-finish sheds dirt and prevents ordinary staining and spotting from oil, grease, water, smoke, or ink. Finger marks, dust, and cobwebs brush off easily. A cloth dampened with water or mild soapsuds quickly makes Linowall as clean and sanitary as new.

IS LINOWALL FADEPROOF?

Sunlight does not fade Linowall any more than it affects linoleum. This is an important advantage, considering that a Linowall installation lasts for years.

IS LINOWALL WATERPROOF AND SUITABLE FOR SHOWER STALLS, LAUNDRIES, ETC.?

Linowall is moistureproof and is not affected by steam. Seams also are waterproofed when the Linowall is installed. Therefore, Linowall can be used in shower stalls, kitchens, and laundries.

(*Continued on page 12*)

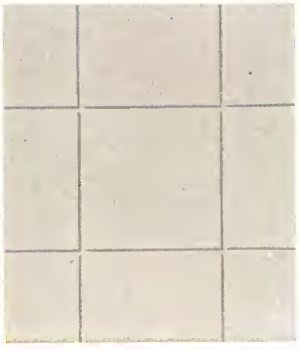
Armstrong's Linowall
Knotty Pine No. 900

Armstrong's Linowall
Green No. 753

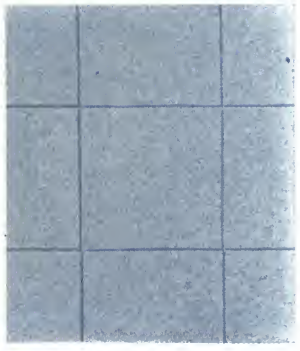
LINOWALL COMES IN A WIDE RANGE OF COLORS AND TEXTURES

Armstrong's Linowall
Yellow No. 750

Armstrong's Linowall
Rose No. 754



Armstrong's Linowall
Ivory No. 752



Armstrong's Linowall
Blue No. 751

Armstrong's Linowall
Canary No. 734

Armstrong's Linowall
Ivory No. 704

Armstrong's Linowall
Tan No. 706

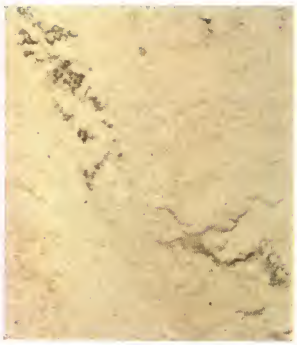
Armstrong's Linowall
Sage No. 738

Armstrong's Linowall
Peach No. 705

Armstrong's Linowall
Green No. 700

Armstrong's Linowall
Parchment No. 737

Armstrong's Linowall
Mother-of-Pearl No. 707


Armstrong's Linowall
Travertine No. 702

Armstrong's Linowall
Primrose No. 708

Armstrong's Linowall
Colonial Blue No. 731

Armstrong's Linowall
Mulberry No. 733

Armstrong's Linowall
Walnut No. 736

Armstrong's Linowall
Pine No. 735

Armstrong's Linowall
Dove Gray No. 732

Armstrong's Linowall
Black No. 703

WHY IS LINOWALL MORE DESIRABLE THAN OTHER TILE, MARBLE, AND WOOD SUBSTITUTES?

The pleasing colors of Linowall extend clear through the composition to the fabric backing. Linowall is approximately 1/16" thick; whereas many tile and marble substitutes have a surface finish consisting of a film only a few thousandths of an inch thick. Linowall, therefore, has more in-built durability and retains its original beauty indefinitely.

Costing only about half as much as other permanent materials, Linowall often makes it possible to cover two rooms for what one would cost otherwise. No painting is required. Hence, painting costs are eliminated.

IN HOW MANY COLORS IS LINOWALL AVAILABLE?

Linowall is supplied in twenty-two patterns. These include a variety of colors and interesting textures, including marbleized, block, semi-plain, and wood effects. A few of these are illustrated in this book.

WHERE CAN LINOWALL BE USED?

Linowall is suitable for many rooms in a home: kitchens, baths, nurseries, living-rooms, dining-rooms, bedrooms, reception halls, dens, recreation rooms, and powder rooms.

IS LINOWALL REALLY APPROPRIATE FOR LIVING-ROOMS AND DINING-ROOMS?

Yes. From the wide assortment of patterns, suitable effects are easily selected for the most dignified rooms. The wood designs (No. 735 Pine, No. 736 Walnut, and No. 900 Knotty Pine) and also the burl grainings—such as No. 737 Parchment and No. 738 Sage—are particularly appropriate for such rooms.

WHY SHOULD I USE KNOTTY PINE LINOWALL INSTEAD OF REAL WOOD THAT HAS BEEN ANTIQUED?

Knotty Pine Linowall has all the charm, softness and depth of aged wood. There are no knots to become loose, nor boards to open due to shrinkage. Linowall can be installed more quickly than wood and without removing plaster. Furthermore, when you see a sample of Knotty Pine Linowall, you know that the finished wall will be in exactly the same coloring. This certainty is not always possible when new knotty pine wood is antiqued to your order.

HOW IS LINOWALL INSTALLED?

Linowall is installed by cementing it to the wall surface with Armstrong's Linowall Paste. It can be applied over new or old plaster that is in sound condition, as well as over certain types of wallboards.

MUST WALLS THAT ARE TO BE COVERED WITH LINOWALL BE OF SPECIAL OR MORE EXPENSIVE CONSTRUCTION?

No. Linowall does not require a better wall than is required by other coverings. Sound, dry plaster with a smooth, well-bonded white coat is all that is necessary.

With Armstrong's Linowall, smart decorative insets like the one above can be produced at moderate cost by any good craftsman. This flexible, resilient linoleum-like composition can be inlaid or appliqued with glass, metal, carved wood, or carved linoleum designs.

CAN LINOWALL BE CURVED AROUND INSIDE OR OUTSIDE CORNERS?

Yes. The flexibility of Linowall permits it to be curved, without seams, around inside or outside corners. Curved corners are decorative and easy to clean.

CAN LINOWALL BE INSTALLED IN BASEMENT LAUNDRIES OR GAME ROOMS?

Linowall should not be cemented to basement walls that are in direct contact with the ground, but it may be applied to a false wall erected against furring strips, with space for air to circulate behind it. If a basement is damp, do not install Linowall before consulting your architect or builder.

CAN LINOWALL BE INLAID WITH LINOSETS OR SPECIAL DESIGNS?

Yes. Linowall can be inexpensively inlaid with other colors of Linowall, or with linoleum Linostrips, and Custom-Craft Linosets (see page 8). It can be inset with coats-of-arms, monograms, hand-carved plaques of linoleum, wood, or metal; or it can be appliqued with glass and metal. Armstrong's Bureau of Interior Decoration will furnish you with other suggestions.

HOW CAN I BUY LINOWALL?

Linowall is sold and installed by department stores, furniture stores, flooring contractors, and specialty shops. Orders must be placed through these dealers. Linowall is not sold direct to the user. For names of local Linowall dealers, write to Armstrong Cork Company, Floor Division, Lancaster, Pa.

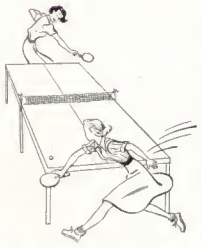
WHERE CAN MY ARCHITECT OR BUILDER FIND OUT MORE ABOUT INSTALLING LINOWALL?

Tell him that Linowall is described in *Sweet's Architectural Catalog* or in the *Builder's Supplement of Home Owners' Catalogs*. If you care to send us his name and address, we shall be glad to furnish complete specifications, samples, and other data.

SPLASH ALL YOU WISH in this tasteful bathroom. The walls are waterproof Armstrong's Linowall, which is unaffected by steam and water. In Linowall, special designs like the one above the tub can be inset as easily as in linoleum. And like linoleum, Linowall is available in a wide range of attractive colors. The floor above is Armstrong's No. 021 Black Marbelle Linoleum, with a No. 931C Ready-Cut Linoset and matching Linostrips. Linosets for use with linoleum and Linowall are described in detail on page 8.

Basement Play Rooms

YOU CAN CONVERT YOUR BASEMENT INTO A FAMILY FUN CENTER WITH ASPHALT TILE FLOORS



The first step in planning your basement playroom is to find some attractive but low-cost covering for the hard, dusty concrete floor. Because even the driest basements are damp at times, materials like linoleum, rubber, cork, or carpeting are not recommended. Painting the concrete is seldom satisfactory and still leaves the floor cold and hard. Likewise a wood floor is unsatisfactory and expensive.

In asphalt tile, however, many home owners have found an inexpensive solution to this problem. The following questions and answers will tell you why.

WHY IS ASPHALT TILE THE ONLY RESILIENT FLOORING YOU RECOMMEND FOR BASEMENTS?

The materials used in making asphalt tile are not affected by dampness as are the materials in linoleum, cork, or rubber floorings. Therefore, asphalt tile is the only type of resilient flooring that is satisfactory for basements or other areas in direct contact with the ground.

IS ASPHALT TILE EXPENSIVE?

No. It costs less than other resilient floorings. That is, you not only get a more moisture-resistant floor, but also a thicker one for the money.

CAN ASPHALT TILE BE BOUGHT WITH TIME PAYMENTS?

Yes, through the Armstrong Finance Plan. Your Armstrong contractor will give you full details.

I HAVE SEEN FLOORS WITH GAME BOARDS PAINTED ON THEM. CAN I DO THIS WITH ASPHALT TILE?

Do not paint the game boards on asphalt tile. Instead, have the pieces of tile laid so that the different colors form the game board designs you want. A built-in board of this kind never has to be refinished because the colors run through the full thickness.

IS ASPHALT TILE FIRE-RESISTANT?

Yes. One of the materials used in it is asbestos.

WHAT ABOUT CIGARETTE BURNS?

Marks left by burning cigarettes or matches are easily removed from asphalt tile by rubbing the surface lightly with a fine grade of steel wool.

DOES THE CONCRETE HAVE TO BE LAID WITH A MEMBRANE WATERPROOFING IF ASPHALT TILE IS TO BE INSTALLED?

No. Any dry concrete floor is suitable for asphalt tile if the concrete is not subject to hydrostatic pressure or other factors causing excessive moisture.

CAN I USE ASPHALT TILE TO WATERPROOF MY BASEMENT?

No. Asphalt tile, while moisture-resistant, is not a waterproofing and should not be used as such.

IS ASPHALT TILE A BASEMENT FLOORING ONLY?

No. It may be used in any area of a house where an attractive, low-cost flooring is desired. In basementless "California-type" homes, where the concrete slab is in direct contact with the ground, asphalt tile should be used instead of linoleum.

WHERE CAN I GET HELP IN PLANNING MY ASPHALT TILE FLOOR?

Any Armstrong contractor handling our asphalt tile will be glad to assist you; or write to the Armstrong Bureau of Interior Decoration, Lancaster, Pa.

HOW SOON CAN ASPHALT TILE BE LAID OVER FRESHLY INSTALLED CONCRETE?

The actual time varies. The important thing is to have the concrete surface thoroughly dry. Roughly, a month should be allowed for setting and drying of new concrete if the basement is heated and well ventilated; otherwise, wait longer.

IS ASPHALT TILE EASY TO KEEP CLEAN?

Yes. Dry-mopping and occasional washing and waxing will keep it fresh and attractive for years.

IS ASPHALT TILE SMOOTH ENOUGH FOR DANCING OR SHUFFLEBOARD?

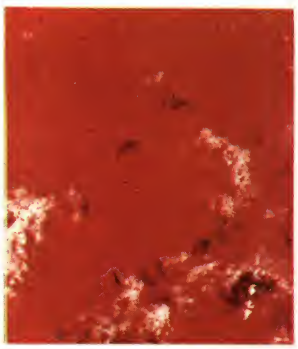
If asphalt tile is waxed, it forms an excellent floor for dancing or shuffleboard. If, however, the room is to be used for ping-pong or similar games, the asphalt tile may be left unwaxed for steadier footing.

I HAVE SEEN ASPHALT TILE FLOORS BUT THE COLORS WERE DULL. ARE YOURS ANY BETTER?

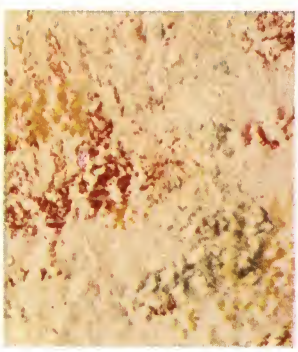
We'll leave that up to you, but we predict that our thirty-seven handsome plain and marble colors will give you a new respect for asphalt tile. As a bit of preview, we show a few of these colors on the facing page.

PLAN A BASEMENT GAME ROOM in your new home, or convert an odd corner of your present basement into a family fun center, with gay floors of Armstrong's Asphalt Tile—the only type of resilient flooring that should be used over concrete in direct contact with the ground, whether on or below grade level.

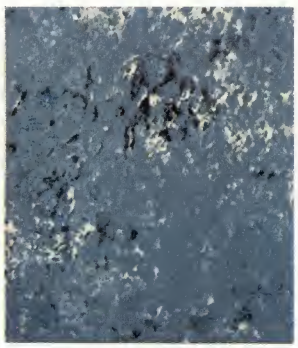
THERE ARE 37 HANDSOME COLORS FOR YOU TO CHOOSE FROM



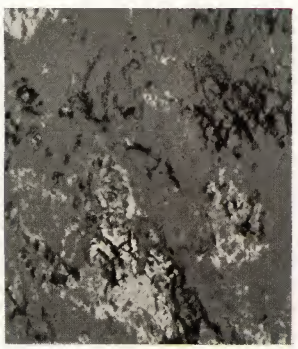
Armstrong's Asphalt Tile
Cinnabar Marble No. 324



Armstrong's Asphalt Tile
Tennessee Marble No. 342



Armstrong's Asphalt Tile
Delft Marble No. 355



Armstrong's Asphalt Tile
Slate Gray Marble No. 345

A kitchen that is more than a kitchen might be the name for this handy room with its provision for family bookkeeping, sewing, and breakfasting. The floor is No. 0396 Straight Line Inlaid Linoleum.

ARMSTRONG BUILDING PRODUCTS

Floors

- Linoleum
- Linoflor
- Mastic Armoflor
- Quaker Rugs
- Quaker Floor Covering
- Standard Rugs
- Standard Floor Covering
- Asphalt Tile
- Linotile (Oil-Bonded)
- Rubber Tile
- Monocork
- Cork Tile
- Cork Carpet

Wall Finishes

- Linowall
- Monowall
- Cork Tile
- Temlok De Luxe® Interior Finish
- Temwood
- Blocked Temwood
- Temboard
- Temboard De Luxe

Insulation

- Corkboard
- Temseal Insulating Sheathing
- Temlok Insulating Lath

ARMSTRONG CORK COMPANY, FLOOR DIVISION, LANCASTER, PA.

No. FRT-20

Printed in United States of America

Burnham Home Heating Helps

told in a friendly way

Burnham Boiler Corporation
IRVINGTON, NEW YORK

How much do you care for your children? Do you care enough to make sure that the floor is sufficiently warm so that they can at any time play around on it? If you do care that much, then the friendly suggestions that follow will mean a lot to you.

The friendly way we will help you with your Heating

IN THE FIRST PLACE, let's forget all technical talk. Let's have no discussions about "impinging fire surfaces" and all that sort of silly lingo.

Let's just sort of sit down together, as you would with one of your neighbors who dropped in for an evening, and chat as you then would if the talk turned to heating.

When you consider that for a large portion of the year, so much of your home's comfort depends on the heating, its importance among *first* considerations is obvious. Yet so many actually leave it until the *last*.

You may get accustomed to the shortcomings of ineffective heating, but your friends and guests don't. You may get over grouching about your fuel bill, but the cause is there just the same.

It is, year after year, costing you more than it need. You are actually spending a certain amount of your money for which you get no returns. Which wouldn't you say, is the same as throwing it away?

So don't compromise with your heating. Skimp other places if you must, but have your heating right, so you can have both contentment of mind and comfort of body.

You will find this book is a friendly help. Anything not covered that you want to know about, don't hesitate to write us. You will get a prompt answer. Furthermore you will find us friendly, pleasant people. A point you will appreciate.

Some friendly suggestions as to ways of keeping down Heating Costs

ALLOW US TO SAY AT THE START, that merely keeping down the *cost of your heating* does not mean you are *keeping down heating costs.*

Let us explain. The cost of your heating is what the outfit costs complete to put in. The heating cost, is what it cost to put in, *plus* what it keeps on costing, day after day *to run it.* Suggest reading that over.

Here is how it works. Generally speaking the cost of the heating averages around 9½ percent of the total cost of your home.

If, however, to save a few dollars at the start, by skimping a bit here and there on size of your radiators; or allow yourself to be convinced that a smaller boiler will do the work, than the figures show is needed, your heating costs are always going to be too high.

Not only too high, but you won't get the heat comfort you want and have a right to have. It means forever forcing and pushing the boiler. When you do that, an excessive amount of heat is sent up the chimney instead of into your radiators.

Even if that heat didn't go up the chimney, a radiator of a certain size can do only so much heating in a given time. You can't get a quart out of a pint bottle. So it all means you must not only run your boiler harder, but keep it burning full blast longer.

You may save a few first dollars in consenting to skimp your radiation or your boiler, but you will pay for that saving over and over, by the extra fuel you must burn, and still not have the cosy comfort heat you have a right to have. Such crowding of your boiler also shortens its life.

So save your money and insure your contentment by having plenty of radiation and an ample size boiler. Don't let anybody talk you out of it. Be firm on that.

It's funny the way some men have of blaming their wives, for what they are to blame themselves. They will insist on having all the say about selecting the heating, and then grouch to her if it isn't satisfactory.

Now let's get Systems Out of our System

TALK TO MOST OF YOUR FRIENDS about how best to heat your house and what happens? Some will mention this or that system. Others dwell on the fuel and talk the advantages of oil over coal, and gas over oil. The next one you ask is "all het up" on the advantages of having a stoker and using cheap fuel. And so it goes.

A surprising few seem to consider of much importance what goes to make up one system, or another. Or the best boiler for your particular needs.

Of first importance to you, is what kind of an outfit is best adapted to your needs and pocketbook. It is both the starting and the stopping point so far as you are concerned.

Of course, for one reason or another, you may prefer steam over hot water. But what you may like, doesn't prove it is the best for your home, all things considered.

In any event, the heart of any heating system; and the efficiency of burning any fuel, *largely lies with the boiler*. Therefore, start right, right at the start, with the right boiler.

Naturally every boiler maker claims his is the best. But it is just common sense that all of them can't be best. Some one of them, however, is the best one for your needs and pocketbook.

We believe it is a Burnham. We know there is a Burnham for every need and pocketbook, and we know how effectively Burnhams give you cosy comfort heat. We have been making Burnhams since 1873.

Then let's Systematically look into the Systems

THERE ARE FOUR MAIN SYSTEMS, the heart of which is a boiler. Let's look into the points of each and see if we can't help you to make a selection of the one system best adapted to your particular needs and pocketbook.

1. STEAM

Lowest in cost of installation. Quick to respond. Quick to heat. Costs less than water because of one line, instead of two, of pipe that most hot water systems require. Because of high temperature of steam, radiators can be smaller than for water.

Steam's limitations are, that unless you have it equipped with the right kind of venting valves on the mains and radiators, you won't get a bit of heat until the water is at boiling point and steam pressure is produced. Below that point you burn fuel without any return.

That's why so many steam heated homes, become so quickly chilly when the heat is shut off. There is no hold over heat in the radiators.

2. VAPOR-STEAM COMBINATION

By this combination, we mean a one pipe steam system, the mains and radiators of which are fully equipped with automatic air venting valves. Not the usual kind, but Burnham's that not only let the air *out,* but *prevent its returning.*

That means, the air pressure in the system will be so reduced, that the boiling point of the water is lowered, and the hot vapor will circulate freely before there is any actual steam.

You get heat several degrees before the boiling point is reached. With but a moderate fire, radiators will keep continuously hot.

These Burnham let-out-keep-out air valves, do cost a bit, but will pay for themselves the first season in actual fuel saved. They are sure enough your thrift friends.

3. VACUUM STEAM

This is sort of a glorified steam system, having both flow and return pipes, as with hot water. It is equipped with special valves and steam traps which preserve a partial vacuum in the entire system. Sometimes on the larger installations vacuum pumps are used.

The boiling point of the water, because of the reduced air pressure, is greatly lowered, and the hot vapor circulates unhindered. Each radiator is equipped with a handy valve, giving a graduated control of the heat. Also a steam trap to keep heat in the radiators.

Its cost is higher than the other systems, but the convenience of control, comfort assured, and fuel saved, some feel warrant it.

4. HOT WATER

The minute there is any heat in the water, that minute it starts circulating, and you get heat from the radiators. It is a delightful low temperature heat.

The ordinary gravity hot water system is a bit slow to respond. But that can be successfully overcome by use of a noiseless, electric pump which speeds up the circulation, making hot water heat practically as flexible as steam. Because of the water averaging not above 180 degrees, the radiators must be larger to give an equivalent heating surface to that of steam at 212.

Each radiator has two pipes—one to bring the hot water from the boiler to the radiators; the other to take the cooled water back.

Of late however, there have been such great improvements made, that now you can have automatic hot water heat, with only *the one pipe,* same as for steam.

It's accomplished by using the circulator mentioned a moment ago. In addition, every radiator is connected to a wizard like Venturi Fitting. It's an odd looking little affair, that in a sort of magic noiseless way, does the work of a pump. It speeds up the circulation of water through each radiator. That means much quicker and more uniform heating.

There's nothing about that Venturi Fitting to wear out. Has no moving parts, springs or valves. Works on an old principle discovered way back years ago, and now being applied extensively.

With our 40% less room taking Slenderized radiators, you can now have hot water heat, taking no larger radiators than used to be used for steam.

Bear in mind that this one pipe system is for use with automatic heat, using oil, gas or stoker fired coal and thermostatically controlled.

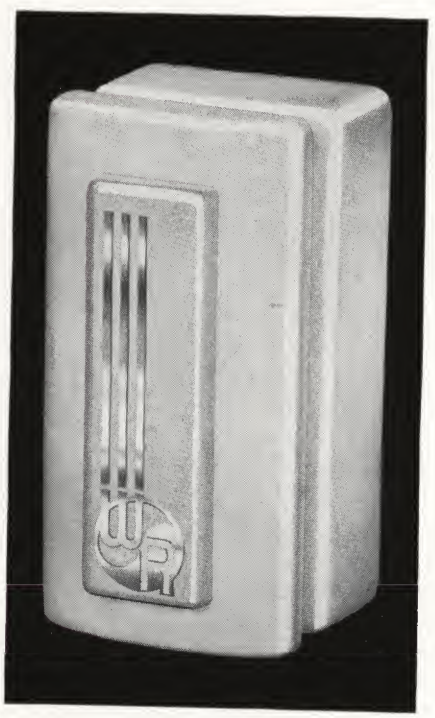
5. UNIT AIR CONDITIONING

Any of these four systems can in a very simple, low-cost way, be made a complete winter air conditioning system. It can be done just as effectively with any existing radiator system as for a new one. You'll find all you need to know about it on pages 16 and 17.

At this point

Consider Automatic Heat

. . . It's so well worth considering



This is the thermostat. You set it at whatever temperature you want, and it does the rest. Does it day and night. Just set it, and forget it. But it will never forget. Never goes to sleep.

IF FOR NO OTHER REASON, than making sure of contentment of mind and comfort of body, automatic heat is worth its price to you.

It certainly does effectually take the fuss and cuss out of heating your home.

Perhaps a better name for it might be "Magic Heat", for it is almost uncanny the way an innocent little box affair called a thermostat, conveniently located on the wall, can take the whole bother of heat watching off your hands.

You set it at the temperature you want, and it does the rest.

Automatic heat is a positive success with gas, oil, or stoker-fired coal. It costs no more in the end than other heats, that do so much less for you. Costs no more, because you get so much more 24-hours-a-day comfort out of it.

Another thing distinctly in its favor, is that you can have all year around hot water for your kitchen and bath from the *one* boiler.

Does away entirely with the need of a separate hot water heater.

It's an exclusive advantage however to be had only with radiator heating. **It's not possible with any warm air system.**

Gas is the most completely automatic of all, because after the supply pipe is connected, you give it no further thought.

Your oil distributors will fill oil tank and see that it is kept full at all times, relieving you of even that one last bother.

In some sections, by using a stoker, you can save considerable on your fuel costs, as it will burn a low cost coal.

As far as we are concerned, Burnham make boilers, each designed to best burn any of the three fuels.

So again it simmers down, to selecting the fuel and the Burnham which best meets your particular needs and pocketbook.

If you can, by all means put in some one of the three automatic heats. You will then be assured of carefreeness and an absolute contentment of mind and comfort of body.

Now let us look into The Fuels that are the best for you

GAS

Gas is the most fully automatic of all fuels. No bin or tank to fill. No ashes. No odors. Where natural gas is available and in many localities where there is a low gas rate for heating, the cost is not at all excessive. After the pipes are connected you can forget everything. The thermostat and other automatic devices do the rest.

OIL

So far as convenience and freedom from all care is concerned, oil comes next to gas for automatic heating. All you need to remember, is to keep an eye on the oil supply. Even that, in some localities, is taken care of by the oil concerns. All standard makes of oil burners are now so highly perfected, you can't go wrong on oil heat. But it is important to have the right boiler. Our new all fuel Yello-Jacket "that stings the fuel bill", gives a highly satisfactory result with oil. See page 20 for description and illustrations of this truly remarkable boiler. We have a catalog devoted especially to this fuel stinging boiler. Send for it.

COAL

In some instances coal has it all over both gas and oil so far as cost is concerned. But its bugaboo always was the necessity of hand shoveling it into the boiler, and the temper-testing taking out of the ashes. But the automatic stokers have now taken care of that to the queen's taste. They automatically feed the coal to the fire from either your bin or a hopper. The ashes are at the same time deposited in dust-tight cans for easy removal. You can use a low price fuel, generally making a considerable saving. With stoker firing you can have automatic heating of your hot water supply, during both summer and winter, the same as with gas or oil. The Burnham coal boilers, because of their extra long fire travel, are highly satisfactory with either hand or stoker firing. It's that long fire travel that makes their short fuel bill.

As for the comparative cost of oil, gas and coal, you can readily see all depends on conditions where you live.

Then arises that little-big question of Radiators

HAPPILY for you the day is past when radiators have to be ugly, stick-out-in-the-room objectionables. Made the Burnham Slenderized way, you only feel the comfort they give and scarcely notice their existence.

So narrow are they—Slenderized describes them—that you can recess them between the uprights in the wall and they will not be in the room at all.

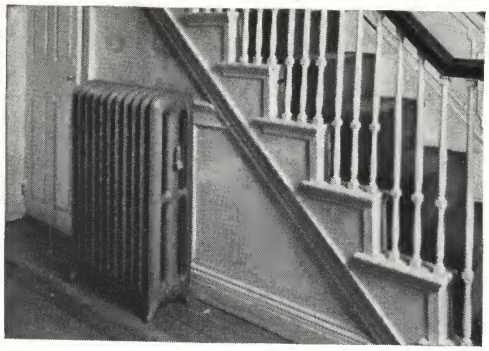
The surprising thing is, that small as these slenderized radiators are (40% smaller) they actually heat 40% quicker.

Take this room pictured below. It used to have one of those "mountains of iron" kind of radiators and seldom was comfortable.

It was replaced by one of our Slenderized Radiators of the same capacity, placed under the window between two bookcases. Over it is a handy shelf. The woodwork is natural color, shellac-finished, rubbed to a dull glow. The radiator was painted with a thin wash of brown, toning in perfectly. In the photograph naturally the radiator shows up more than it actually does, because we took it that way on purpose.

Here's something of greatest importance. The room now not only heats perfectly but with a surprising quickness. And another thing, these Slenderized Radiators of ours give you both *radiant* and *convected* heat. An important thing if you want quick, economical results.

Here is one of the many sorts of things you can do with the Slenderized Radiator. How attractively it tucks away under the window shelf. These radiators are made in various sizes and shapes "to fit places".

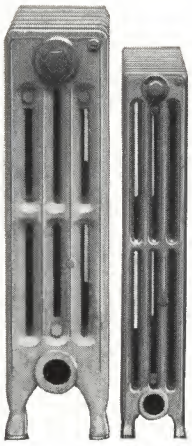


Left, What an eye-sore is that wide ugly looking old-time radiator in this carefully designed Colonial hall. How conspicuous and entirely "out of keeping".

Right, Finally the owner revolted and "yanked out" the old radiator, cut a recess and put in one of the new Burnham Slenderized Radiators which is flush to the face of the wall. Does not stick out at all into the hall. What a difference!

OPEN FRONT RECESSED RADIATOR

The Slenderized Radiator being only $4\frac{7}{16}$ inches deep, a recess space can be made between the studding under the window, and the radiator set in it entirely out of the way. So good looking is this radiator, it is being used extensively without panel front or grille.



THE OLD AND THE NEW

The Slenderized one at the right is 40% smaller, still it heats 40% quicker. Besides it's more attractive in its chaste design. And that's important.

RECESSED WITH RADIANT PANEL FRONT

The Slenderized Radiator can be used with the Burnham Radiant front panel. The lower portion of the panel is entirely open and the radiator itself acts as the grille, giving off radiant heat. The grille at the top gives you convected heat, which is an ideal combination giving quicker heating results.

IT'S CONCLUSIVE

SO ALL THESE THINGS are what the new Burnham Slenderized Radiators will do for you. Although so much smaller, they are far more efficient than the big ugly ones, that are so utterly impossible in present day homes. The new good-looking Burnhams cost practically the same as the old ugly ones. Think of that.

Just a word more. The old-time radiators stick out in the room 10 to 12 inches. The Burnham Slenderized ones, no further than your forefinger is long. And let us say again, that in a recess space of $4\frac{1}{2}$ inches between the studding under your windows, the Slenderized Radiator will fit in entirely out of the way. Its front will be flush with your walls. So finely designed and finished are they, that you need no grille in front of them. They are their own grilles. And another thing. These Slenderized Radiators so recessed are highly efficient. Don't let anyone tell you otherwise.

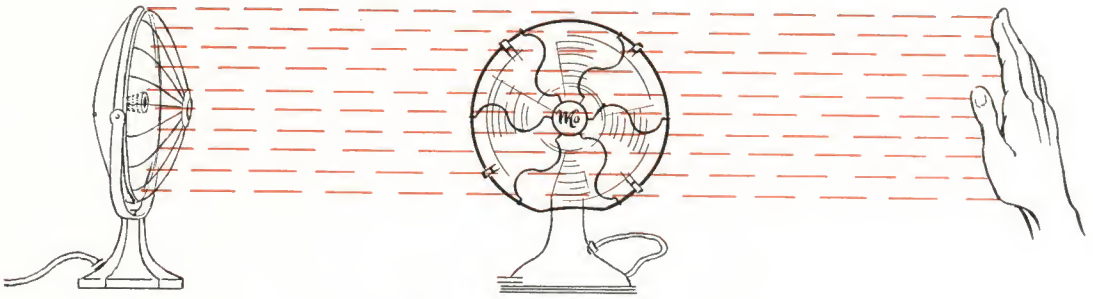
ABOVE PHOTO

If you were not actually looking for the radiator in this room, you just wouldn't know it was there. When you did discover it, you would have the impression not of a radiator, but an unobtrusive, carefully designed grille. Such is what can be accomplished with Burnham Slenderized Radiators.

PHOTO AT LEFT

This photo shows the way the old type radiators stick out. This one in a bed room is actually a foot deep, besides setting out two inches from the wall. That makes 14 inches into the room. Yet it is no larger than the usual style of radiator has to be. You would scarcely have noticed it, if it had been a Burnham Slenderized.

Why it's important to heat with Radiators giving you Both Radiant and Convected Heat



Prove It Yourself

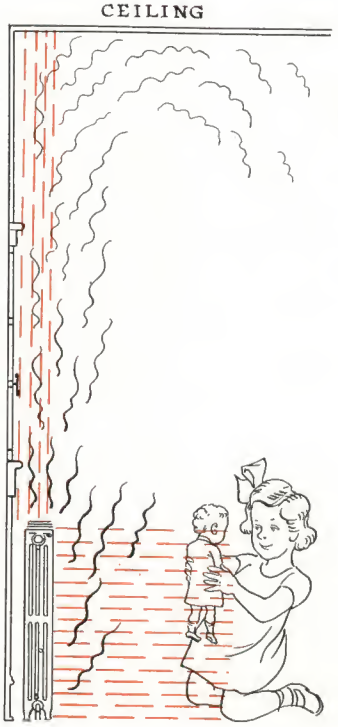
Just to prove to yourself that radiant heat travels in straight lines and is not the least influenced by drafts, try this experiment. Take an electric bowl-type heater such as are so often used in bathrooms. It gives off only radiant or straight-line heat. Now about two feet away place an electric fan so that the breeze will blow directly across the path of the radiant heat from the bowl. Hold your hand as shown above. You will find that no matter whether the fan is going or not, you feel the same amount of heat on your hand.

ISN'T it so, that just because those words *convected* and *radiant* sound so sort of technical like, that mostly folks haven't bothered to know how important they are?

But they are important, and really not at all technical. Here is just a plain every day explanation of them.

RADIANT HEAT travels in straight lines. For instance, the radiant heat from a radiator does absolutely no heating of the air through which it passes. It must first strike something like a chair, table, the wall or yourself, and be reflected before it does any heating. Radiant heat rays are not affected by drafts or air currents in the room. These sun-like rays travel straight through. It is exactly the same brand of heat that the sun gives off. The air through which it passes is not heated in the least. That is proven by the fact that the higher you get in the mountains, or away from the earth in an aeroplane, the colder it is. Naturally it would seem that being nearer the sun it should be warmer. It is because the sun's radiant rays heat the earth only when they *strike it and are reflected back.*

CONVECTED HEAT is entirely different. Let's go back to the radiator for an example. It gives off radiant heat in straight lines. It also heats by convection. That means it directly heats the air that comes in contact with and rubs against the surface of the radiator.



Both Heats at Work

This sketch shows you in red lines how the radiant heat from a radiator travels. The black lines show the action of the convected heat. It is the combination of them both, that makes Burnham radiator heating systems so much quicker and more economical than any others.

The minute the air is heated, it starts to rise in a more or less circulatory or wavelike manner.

Because it first rises towards the ceiling, not until the air up there is the same temperature as the heat itself, does it start coming down to do its job of heating the lower parts of the room.

So you now at once see, that while the radiant straight line heat from the radiator has been warming up the walls and lower parts of the room by reflection, the convected heat has been heating the upper parts by circulation.

Both finally come together. It is obvious that when you have the combination of both these heats, given off by radiators, you get far quicker heating results.

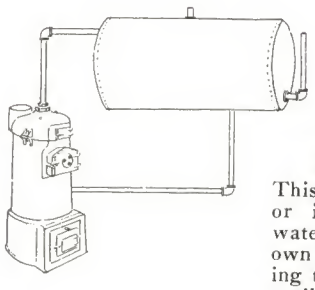
Warm air systems give you only convected heat, which works from top of room down.

Radiators heat from *both the bottom and the top,* and meet in the middle, so to speak. That's why they give you such quick heating.

It's at the windows that the cold air comes into a room. With radiators you can locate them under the windows. Then the cold air filtering in is heated before it circulates in the room. That's why with a Burnham radiator system you can sit by a window with such contented comfort.

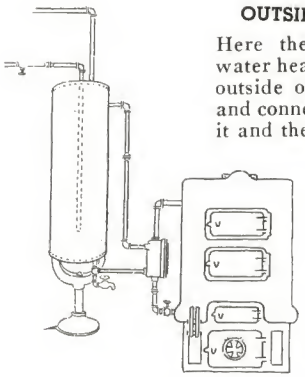
Of next importance is HOT WATER

How to keep out of it by Keeping in it



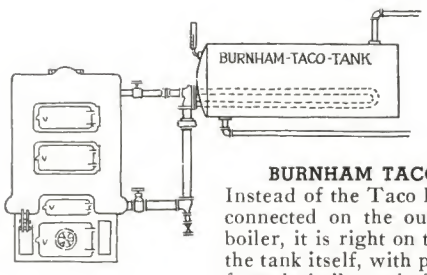
SEPARATE EQUIPMENT

This is the separate or independent hot water supply with its own boiler for heating the tank. It generally burns coal.



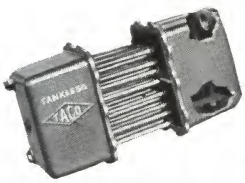
OUTSIDE TACO

Here the Taco hot water heater is on the outside of the boiler and connected to both it and the tank.

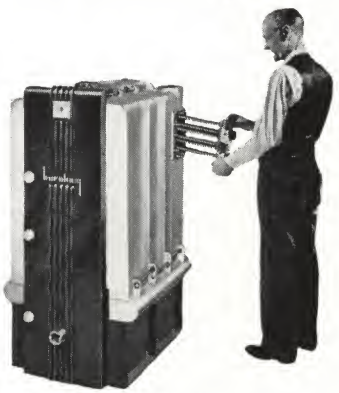


BURNHAM TACO-TANK

Instead of the Taco heater being connected on the outside of the boiler, it is right on the inside of the tank itself, with pipes coming from the boiler to the Taco heater. Gives particularly high efficiency.



The Tankless opened up so you can see its insides.



BURNHAM TANKLESS TACO

The Tankless is filled with numerous copper coils, which instantaneously heats the water as drawn direct from it. No storage tank needed. Can be connected on outside of any boiler. The Burnham Yello-Jacket Boiler is shown with the tankless coils being slipped inside. It was the first cast iron and the only small house boiler to have a completely Biltin Tankless.

NEXT TO POOR COFFEE AND COLD SOUP, what is more exasperating than the failure to have enough hot water, when you want it? It has doubtless caused more grouching than anything else about "living home".

Of course, to have good coffee you must first start with enough coffee; you know that's just good sense.

By the same token, if you would make sure of having enough hot water, you must first see that your supply source is large enough. So don't skimp on it to save a dollar or two.

Then make doubly sure your way of heating it will do the job you want done.

It is a funny thing, that important as hot water is in every home, so many folks will, for instance, cut costs on the equipment by cutting down on size of tank, or skimping on size of the heating part.

Cut down on the size of your pet closet, but whatever you do, see to it you will have all the hot water you need. Not only have it at certain times — but *all* the time.

Below are described the four different ways to make sure of having it all the time.

1. INDEPENDENT HEATER

Have a Burnham hot water supply boiler connected directly to the supply tank. It is surprising how little fuel they burn and how much hot water they give.

2. OUTSIDE INDIRECT HEATER

This is a copper coil, enclosed in a cast iron casing, through which the water from the boiler circulates. The coil portion is directly connected to the supply tank, heating it. This Indirect Heater can be connected to the outside of any boiler and it will give highly satisfactory results. You can get these Taco Indirect Heaters from us.

3. BURNHAM-TACO TANK

The copper coil heater and tank are combined in one. It is connected directly to the boiler. One of the most economical and satisfactory methods.

4. BURNHAM TANKLESS TACO HEATER

No storage tank is needed. The Taco instantaneously heats the water as drawn. This Tankless can be attached to the outside of any boiler. Our Yello-Jacket has it built inside. It's a direct part of the boiler.

5. BURNHAM-TACO BILT-IN WATER HEATERS

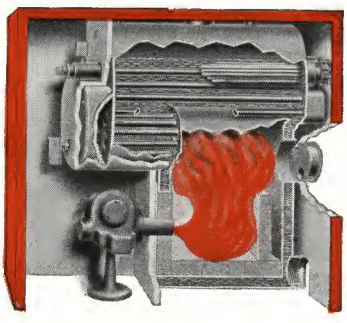
Both our cast iron and steel Oil Boilers have Taco Heaters built right into the Boiler for year 'round supply of piping hot water for Bath, Kitchen, and Laundry.

6. BURNHAM-TACO HEADER HEATER

Is used with our Conversion Boilers for Summer-Winter Hot Water. It is connected to all the sections just below the waterline where the water is hottest. It is an ideal fix.

Just a Word About the Oil Burning STEEL BOILER

This photograph of the complete boiler shows you the neat and trim lines of the jacket. Pleasing, wouldn't you say?



We took one side of the jacket off and cut open the boiler to get this picture. Notice the two passes of tubes, the copper coil, Taco Water Heater located in the hottest place at the top, also that the water in the boiler extends clear under and around the combustion chamber.

FOR THOSE WHO prefer steel boilers we have a specially designed Steel Oil-Burning Boiler of the efficient "Scotch Marine Type."

It is an unusually economical and attractive boiler, completely welded into one strong compact unit and enclosed in a good-looking two-tone red and grey jacket.

Everything is enclosed within the jacket, even the oil burner itself, so there is very little, if any, possibility of anyone tampering with the controls.

Everything being enclosed, any slight mechanical noises are hushed to an almost inaudible whisper. Quiet operation is assured.

Because of the extra heavy layers of insulation which surround the boiler, very little heat is radiated through the jacket — one of its distinct economy features.

This Steel Boiler is designed for any gun or pressure-type of oil burner you may prefer. This is an added advantage as it is possible for you to select an oil burner sold and serviced by a local dealer.

As is the case with our Cast Iron Oil-Burning Boiler, the Steel Boiler is furnished complete with a genuine Built-In Taco Water Heater for year 'round domestic hot water supply. It is also provided with and for all modern safety devices to assure safe and dependable operation.

Some Helpful Suggestions on Selecting the Best Boiler for Burning Oil

WHEN oil burners were first being perfected for home heating, the leading concerns used Burnham regular coal boilers practically exclusively, for oil demonstration purposes.

They did it, because of both the Burnham economy and their long fire travel, which hushed so much of the roaring noise of the flame.

In those days, there was no such thing as a boiler designed exclusively to burn oil. So all burners were attached on the outside of the boiler.

There is no doubt about the very definite fuel economy in our specially designed De Luxe Oil Burning Burnham Boiler. It is also attractive looking with its smart jacket. There are certain advantages in having everything built in and out of sight.

Some, however, feel that if a time should come when the cost of oil might be such that they would save money by going back to coal, they want to be able to do it. And the point is a good one.

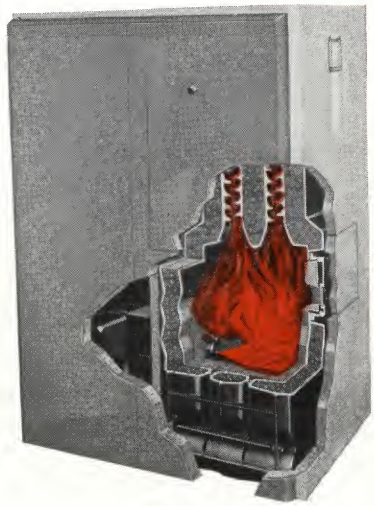
Many people instruct their heating contractor, even though they intend burning oil, to install a coal burning boiler and keep the extra parts on hand for use of coal any time they want to change. It's a good idea.

You see, we are in an entirely unprejudiced position in the matter, as we make both types of boilers. It doesn't matter to us which you buy. So our main interest is to help you get the boiler best adapted to your particular needs and individual pocketbook.

We have a most interesting catalog on the De Luxe Burnham Oil Burning Boiler which we would be happy to send you. We suggest your sending for it.

The Yello-Jacket boiler on pages 20 and 21 is adaptable to burning coal, oil or gas. It is easily converted from one to the other.

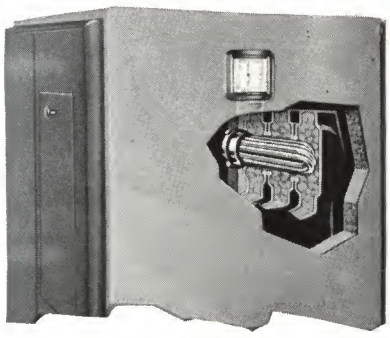
On page 24 are some pertinent questions and answers on the things you should know about heating with oil. Suggest you carefully read them.



Everything about this Burnham De Luxe Oil Burning Boiler is built in. The jacket is as sleek and clean as a greyhound. Even the Taco hot water heater is built in. The jacket is pleasing in design. Finished in a two tone neutral grey.

How the BURNHAM AUTOMATIC HEAT

Furnishes you Hot Water both Winter and Summer



Built-In Taco Hot Water Heater

As a direct part of our Oil Boiler and built right into it is a Taco coil for supplying your kitchen, laundry and bathrooms with hot water. It's located at the hottest place in the boiler, insuring quick, economical heating.

BY AUTOMATIC HEAT, we mean Burnham Boilers burning gas, oil or coal, that are automatically controlled. It used to be that only gas and oil fuels could be fully automatic. But now that stokers have been perfected for home heating, coal also can be automatic.

One of the strong economy points and great conveniences of Burnham automatic heat, is that it furnishes you plenty of hot water in the Summer, as well as in Winter. Your boiler is never idle. This is the way it is done.

For the Summer, the burner or the stoker is controlled by an Aquastat. You set it at say 180 degrees. Whenever enough water is drawn from your hot water supply to lower the temperature, the Aquastat turns on the fire. Soon as the water is again up to the temperature you desire, off goes the fire. No needless fuel is burned.

If for example, an extra number of baths are being taken, and the water should start coming just warm instead of hot, then the Aquastat will see to its being hot again in a surprisingly short time.

"But," you say, "doesn't running the boiler that way heat the house too? Isn't there a waste of fuel?"

No, not at all. The Aquastat attends to that. It never allows the water to get hot enough at any time, to throw heat into your radiators. Automatic control valves on the mains prevent Summer-time circulation of hot water through the radiators. As for cost of fuel, it is but little, if any more than other methods.

But supposing it did cost a bit more, what of it, considering that you know you will at all times, Summer and Winter, have plenty of hot water. All the time. Not just at times.

But you ask what of Coal and Gas-Fired Boilers for Automatic Heat?

Glad you asked that question, even though we have touched somewhat on it already. But it is so important that just touching isn't enough. So let's go into it thoroughly.

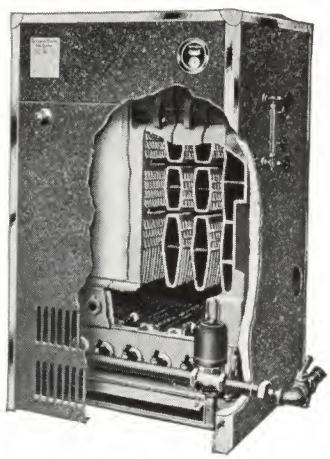
Gas

SOME FEEL THAT GAS is the coming fuel. There isn't a doubt of its being one of the cleanest, fully automatic heats there is. In sections where the gas rate is favorable, we recommend its use. Burnham has a worthy gas-fired boiler designed specially for the purpose.

It's an interesting thing that this boiler shows in service, an economy equalling that of the tests made at the plant, conducted very naturally under favoring conditions.

One of the decided advantages of gas heating is its absolute freedom from care. Once the boiler is installed and connected to the gas, you need give it practically no more attention than you do the water in your home. Like it, it's always there to instantly turn on. No bother watching the coal bin supply, or amount of oil in the tank. No fear of running out of fuel when snow may hold up truck deliveries. No stopping of heat if the electric current supply should fail.

The great increase in home gas heating during recent years shows plainly enough the rapidly increasing appreciation of its care-free advantages.



This Burnham is of distinctly different design than our other boilers. It is made to give you the most possible return from the gas burned. You may doubt our claiming an 8 to 10% economy over other gas boilers, but we have the proofs which you are most welcome to see. For a good many years it has been making warm friends because of the satisfactory way it heats homes.

Stoker-Fired Coal

Automatic or mechanical coal stokers have been used for a long time for industrial boilers. And for a while the makers certainly did have a lot of grief, when they tried to cut down "papa's pants to fit Willie", so to speak, in attempting to adopt those stokers for home heating boilers.

Happily for you, that's all a thing of the long past. The present day stokers are quite wonders of ingenuity. They are just as dependable as oil burners. Burn a low priced coal, therefore are great fuel-cost savers.

Fuel can be either put in hopper by hand, or automatically fed from the bin. The ashes are mechanically deposited in cans, doing away with the dust objection, not to mention the work and the bother that hand shovelling means.

See pages 25 and 26 for Questions and Answers About Stokers and Gas Heating

No, stokers are not noisy. They are just as silent as oil burners. They are entirely automatic, being controlled by a thermostat exactly like an oil burner. They will also give you all year around hot water supply for kitchen and baths controlled by an automatic Aquastat.

Attic Fan Cooler

Reduces Summer Temperature In Your Home 6 to 8 Degrees

IT's the heat that accumulates in the attic and stays dead in your rooms that holds back the after-sundown cooling off of your home. Especially on nights when there is little if any air stirring outside.

If then that dead, stored-up hot air that's in the attic and hanging about your rooms, could be drawn out of your house, and replaced by the cooler evening outside air, you would have one of the simplest, most practical methods of making your entire house agreeably comfortable.

That's exactly what the Burnham Attic Fan Cooler does. Located in the attic, it draws the hot air out of the house and removes the blanket of heat from the attic. Cool night air is drawn in through open windows in the living and sleeping quarters. Every room is filled with this cooling, comforting air from outdoors. A fresh supply of this cool air fills the house every minute or so. You can be sure it does not take very long for the family to react to its comforting stimulation. On through the night this cooling continues, giving rest and comfort to otherwise sleepless tossings. All the walls, floors and ceilings, all the furniture, is cooled far below the daytime temperature. As a result of this night cooling, the house will remain pleasant throughout the following day.

The Attic Fan Cooler comes to you complete, everything is included for an easy quick installation.

INSTALLATION SIMPLE

The complete Fan Cooler with Attic Package equipment includes the special Burnham Strong-Pull Fan, the vent box or duct with its flame-proof draft door, fan switch and ceiling grille.

There's nothing the least complicated about installing this Attic Cooler. Anyone the least mechanically minded can do it. The hall ceiling grille has an ornamental trim, that completely covers the rough plaster edges left in cutting the ceiling opening.

If you wish more detailed information, send for special folder giving full particulars.

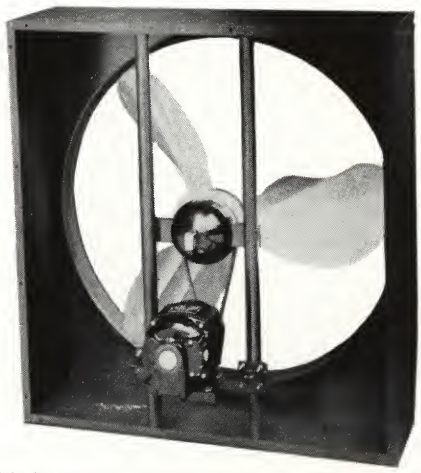
The complete Attic Cooler Package Equipment is made in several sizes.

FOR FLAT ROOFS

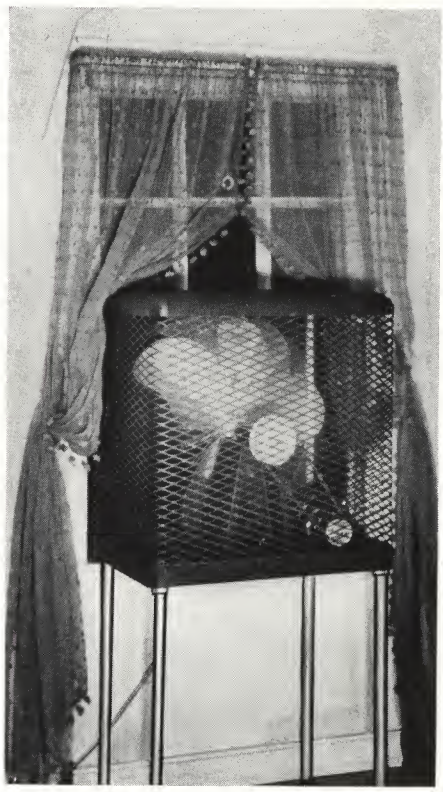
If you have a flat roof and no attic, as is the case with many of the Modern houses, we have an outfit that can be placed right on the roof, and perform equally as effective.

FIRE STOP

The vent box is equipped with a flame-proof fire stop door. It is connected with a fusible plug, which melts and tightly closes the trap door and shuts off the fan, preventing all drafts that might draw any fire from below into the attic.

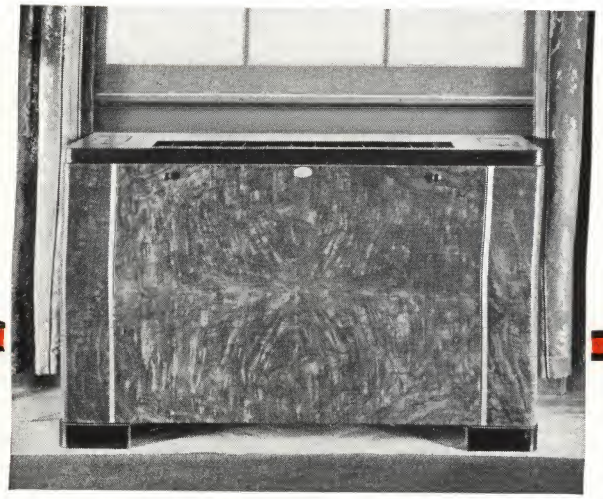


This is the fan used in cooler and ventilator.



Portable Window Ventilator

It's amazing the cooling this high capacity Portable Window Ventilator does. It lowers the temperature not alone in the room where located, but has an effect on the entire house, in the way it literally draws out the hot inside air, and pulls in the cooler outside night air. It can easily be moved from one location to another. The rubber tipped legs are adjustable to fit different height windows. Plug it into an electric light outlet exactly like a floor lamp. That's all there is to it. Cabinet is attractive in design and finely finished. Grilles thoroughly protect fan, preventing harm to draperies and humans. For different width windows we furnish adjustable spacings for each side. Here at last is a thoroughly practical, effective home cooler, the first cost of which is reasonable and current consumption decidedly low.



Here's how the air condition craft-made cabinet looks. You can place it under a window or any other location exactly like a radiator. It can be recessed if you like. See the diagram on next page for how it works.

This is the filter with 2 months collection partly cleaned off. It's easily removable for cleaning. You will be surprised at the amount of dust, dirt and lint it takes out of the air you breathe. To clean, simply put under the faucet.

How To Air Condition Your Home For The Least Cost

Helps Hay Fever And Asthma

We are not so bold as to say our air conditioner cures either of these troubles. But it certainly is a decided help to such sufferers. We don't say it filters out all the pollen or dust in the air. But it does capture enough of it, to cause great relief to many.

ANOTHER outstanding advantage of the Burnham Radiator system of heating, is that for comparatively little, you can have it air condition any one or more rooms.

It has distinct advantages over other methods in its simplicity. Still it does everything in winter air conditioning that the most elaborate systems do, and costs less to do it. There is no space taking, complicated costly equipment in your basement, requiring constant attention. No cutting of your floor or disfiguring of walls, for grilles. No annoying recirculating of odors or disease germs from one room to another, as is absolutely unavoidable with most systems.

Here is how simple this Burnham unit system is. In place of a radiator you use our air conditioner. It takes up practically no more room than the usual radiator grille enclosure. It fits right under your window. It can if you wish, be recessed.

The burl walnut finished cabinet, trimmed with velvet black and just the right relieving touch of chromium, looks like a fine piece of furniture. You would never guess the many things it does so noiselessly and effectively.

FIRST

It filter cleans the air from the dust that is in *all* rooms regardless of how painstaking the housekeeping is.

SECOND

It warms the filter cleaned and sweetened air.

THIRD

It adds just the right healthy amount of moisture. Not so much as to cloud the windows. But just enough to put back the natural moisture heat takes out.

Here is the Conditioner recessed with its Burnham Panel Front. No trouble at all to install. The center panel is removable for easy access to fan and motor, exactly as with the regular cabinet. Furnished in prime coat for finishing in harmony with your color scheme.

FOURTH

It forces the air into the room through a deflector grille, giving it a rapid circulation, meaning quickened heating. The deflector grille throws the filter cleaned, heated and humidified air into the room, at just the right angle to prevent any one sitting by it getting heat blasts.

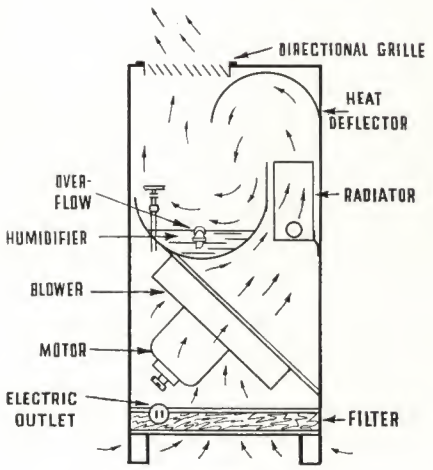
There is a thermostat which automatically controls it, turning the fan on and off as needed. There's also an automatic current snap-on switch, which prevents waste of electricity. The water in the humidifier does not have to be put in by hand. It too automatically takes care of itself.

In the usual air conditioning systems you must have, and must pay for, an elaborate and generally costly equipment sufficient to Condition every room in your home, when all you may really want is, one or perhaps three rooms. But with the Burnham Unit System, you Condition only the rooms you want. That means saving money.

Here's another point in this Burnham method's favor. And it's a strong point! During the summer when heat is off, you can run the Conditioner Fan to make your rooms comfortable, exactly as a regular fan is used. The thermostat has a hand switch control for just that purpose. You'll find it a great improvement over fans, as the air circulation is more general and no spraying of air on anyone, endangering colds.

Here's still another important point, that of the installation. It's simple. Requires no special engineer. Any steam fitter can do it.

Yet another advantage of this Burnham Conditioner is that you can add it to your radiator system at any time; do it equally well on an old, as a new radiator heating system of any kind. All of which are just the high spots. But we have a special piece of printed matter that goes into every essential phase of air conditioning. It's not at all technical. Just simply told, quite like this chat together has been. Will be glad to send it to you on request.



How It Works

This sketch shows you how the fan driven heated air, is drawn in through the filter at the bottom and then thrown down on the surface of the water in the humidifier, where it picks up its natural content of moisture before it flows out the deflector grille into your room. The deflectors are set at just the right angle to throw the heat away from your draperies and out into the room at a height to give the quickest, most agreeable heating results. It does not come out with a blast, but just a gentle steady noiseless flow. You get more and quicker heat from the Conditioner than any radiator alone. It means fuel economy. When the fan is off, no heat is driven into the room. But there is a certain amount coming into the humidifier chamber, causing just enough moisture to be constantly delivered into the room to preserve an agreeable healthy condition.

You Ask Which Is Better the Round or Square Boiler?

NEITHER IS BETTER in the case of Burnhams. But both do best the job they are built to do. So far as economy is concerned, one is just as heat thrifty as the other. Sometimes one costs more than the other—and that often decides it. So let's look each of them in the face and make them tell their own common sense story.

THE ROUND BOILER TALKS

"My head may look swelled. And it is. That's because I'm built to do steam heating as it ought to be done."

YOU SEE IT IS LIKE THIS. I am sort of a tea kettle grown up. A tea kettle with long pants on, so to speak. Because I have always looked like a cross-section between a kettle and the old dining room stove, a lot of folks could understand me. They just put me down as sort of a glorified stove with a tea kettle attachment, that you could hook up to radiators and make everybody heat happy.

"So I sprang into popularity over night. If I do say it myself, there's a lot to be said in my favor. For the moderate size house, you certainly would have a hard time beating me.

"Of course, I have a lot of relations in the round boiler family which I don't much take to. They are off-shoots of the sturdy old Burnham stock under other names. They have married out of their class and cheapened themselves. You know what that means.

"They doll all up and put on the dog. But somehow I just can't feel sure of them.

"I give you the real blown-in-the-bottle-brand of Burnham Cosy Comfort Heat. The heat from a pure blood Burnham Round Boiler. Burns coal, gas or oil. I make a powerful good showing automatically fired. In fact, am quite a general favorite with the oil burner folks. I am a warm friend on whom you can unfailingly depend."

"Here I am with the swelling out of my head ready to do a specially fine job of hot water heating, the way it also should be done."

"It isn't often I open up and let folks in on the inside. But sort of feel I can depend on you. So here I am opened up. Those wrinkles over the fire greatly increase my fuel saving usefulness. But why go into such details here."

"Now you are on the inside, you might as well take a look at my 'inmost innards'. Am built in sort of layers or sections. Note how the hot gases pass back and forth. It is called fire-travel. Because my fire-travel is so long, my coal bills are short."

For Coal

This is the way I look when all set for burning coal. My jacket is the latest style and lined with heavy insulation to keep my heat from going off in the air instead of into the radiators.

For All Fuels

I am the Yello-Jacket Burnham all dolled up in a dandelion yellow jacket, looking right smart and sassy like. If you want to know all about me turn to pages 20 and 21.

For Oil

When you want to use me for oil my grates are left out, fire-bricks put in and the ash pit door is changed to this plate front with a hole for the oil burner nozzle.

The Burnham Square Boiler Speaks Right Out In Meeting

CONSIDERING how the Burnham Round Boiler is my full blood brother, it just wouldn't do for me to say anything against him. Don't know that I could anyway, he is such a dependable, straight-shooting, sure-fire performer.

"But, as is the case with any two brothers, some like one of us, and some the other. Admittedly, there was a time when more liked him than liked me. But it is about even now.

"You see he is built in layers—one on top of the other. I am built in sections, one behind the other.

"In cases where the cellar ceiling is low, I have a way of fitting in. Should additions be put on the home, another section can be added to me, when there might not be room for one on top of my round brother.

"So far as heat thriftiness is concerned, don't know as it becomes me to brag a whole lot. Still there are folks who simply wouldn't consider a round boiler. They like my squarish shape fire box and the easy way my grates shake. Some sizes have double grates, making it possible to run half the fire in early fall and spring, when only a little heat is needed. And all the grates when real winter weather comes. There isn't a doubt I save them fuel.

"My fire travel is long. Goes three-times-back-and-forth my full length, regardless of how many, or how few sections I have. It is that long fire travel that makes my short fuel bill, just as it does in the Round Burnham.

"Folks also like my swell clothes. My tailored jacket I'd have you know, is of the latest cut. It fits right into any dolled up cellar or recreation room, and unfailingly does the Burnham family full credit."

The Saving Advantages of a Conversion Burnham

THERE'S another thing you should know about me, that a lot of folks are keen for.

You see it's this way. Suppose you have a sort of leaning towards burning oil. There are a goodly number of things can be said in its favor. But always comes the thought, suppose the cost of oil should some day be more than coal, or if for any other reason I might want to use coal, then what can I do with my oil burning boiler?

You just can't do a thing about it, if your boiler is one specially designed for oil, with a built-in burner. Only thing to do, is buy an out-and-out new boiler, unless you are lucky enough to have one of our Conversion Burnhams.

If you have, then by simply changing the base—not at all a costly matter—you can change over to burning coal without buying a new boiler.

When you use our Conversion Boiler for oil, the burner is on the outside. Or with the Yello-Jacket we can furnish an extension that encloses the oil burner.

If, however, you have a feeling you will never want to change from oil, then by all means, use one of our special Built-In Oil Burning Burnhams, told about on pages 12 and 13.

It Stings

THE ALL-FUEL Yello-Jacket Burnham

For Hot Water or Steam

There are a lot of smiles for every owner of this New Yello-Jacket boiler because of the way it stings the fuel bill. And when we say stings, don't mean the honey bee kind, that stings once, leaving the stinger in the one sting, and then dies. This boiler is a regular yellow jacket that stings, and keeps right on stinging your fuel bill year after year. You can burn any kind of fuel in it, and the stinging will be the same. It matters not whether it is coal, oil or gas.

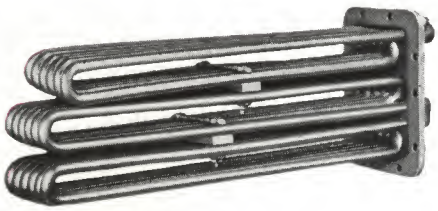
There's one thing you'll particularly like about it, because it can save you future costs. Suppose you decide to burn oil, and then after a while, find coal is cheaper. Or for reasons you prefer it to oil. If you had a boiler that was designed only to burn oil, you

ITS GOOD LOOKS

When you see this Yello-Jacket boiler, it's so pleasing, so attractive looking in every way, that you'll have the impression of its being a piece of furniture or a fine cabinet. And in a sense, it is both.

That combination of light dandelion yellow and black, with just a touch of chromium, is certainly something to conjure with.

This boiler happens to be equipped for oil burning.



PLENTY OF LOW COST HOT WATER

If you want your basement free from a hot water supply storage tank, just say so, and we'll equip your Yello-Jacket with this Tankless Taco instantaneous heater.

The boiler will come to you with the heater right inside all ready to start doing its job of supplying you plenty of hot water for kitchen, bath or laundry.

If you prefer a storage tank, we'll equip the boiler with a Taco heater to best keep it hot water filled.

Your Fuel Bill

couldn't use it for coal. You would have to discard it and buy an out-and-out new boiler.

But not so with this Yello-Jacket. For very little cost you can convert it for oil, even to having an extension of the jacket to enclose the oil burner. It's also just as easy to shift from oil to coal any time.

Another outstanding point in its favor, is that it will give you hot water for your kitchen and bath for practically no cost.

But that isn't all. You don't even need a storage tank. That's a saving in itself. There's a Tankless Taco Heater built right inside the boiler that heats the water instantaneously as fast as you draw it. If, however, you prefer having a storage tank, then we furnish a biltin Taco to give you hot water that way.

What I am about to mention may be a bit technical, but it has so much to do with the fuel bill stinging, it can't be left out. It's about the combustion chamber. This Yello-Jacket has *two*. It's the only all fuel cast iron boiler that has these particular *two*.

Now the combustion chamber is the space where the fire burns. That part of the boiler in the combustion chamber, that's right over the fire, is the most efficient, because it's what is called "direct surface" and absorbs the radiant heat.

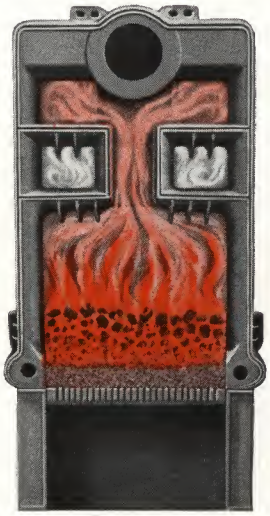
This Yello-Jacket's combustion chamber extends not only over the fire, but also right through the center of the boiler, from cellar to garret, so to speak. The fire shines directly on all that surface, and where the fire shines, the most heat from the flames is absorbed.

No other cast iron boiler so far as we know, has this double combustion chamber feature. No other has as much direct fire shine surface.

Hope we have made it clear, because it's a most important feature. Besides which, there are many other economy features, but we won't tire you with them.

Do want, however, to say a word about the jacket. It's so pleasing in design and so thoroughly well made, that it scarce looks like a boiler, but a fine piece of cabinet work. The color is a most attractive light dandelion yellow, that harmonizes with practically any color. The enamel is double coated, twice baked. The jacket is heavily insulated so there is practically no loss heat.

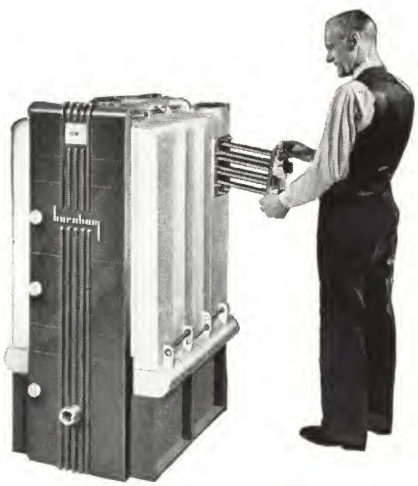
Here then, is the last word in boilers. One that we are fully warranted in saying, is by far the best all around, all-fuel-boiler, your money can buy, barring none.



THAT DOUBLE COMBUSTION CHAMBER

Perhaps you can get the best idea of what the double combustion chamber is by our taking a section of the boiler and showing the fire. In all other cast iron boilers the direct fire-shine-fire, is only on the surfaces directly over the fire.

Note how here they are not only those over the fire, but all the way to the top. It's one of the big reasons for the way this Yello-Jacket boiler stings the fuel bill.



LOCATION OF HOT WATER HEATER

Here is the boiler before the jacket was put on, and showing the Taco Heater being slipped in place, inside the boiler. Its location is at a point where the boiler water itself is the hottest.

It insures not only quick heating, but an ample supply of low cost hot water from your taps or faucets.

JACKET EXTENSION IS REMOVABLE

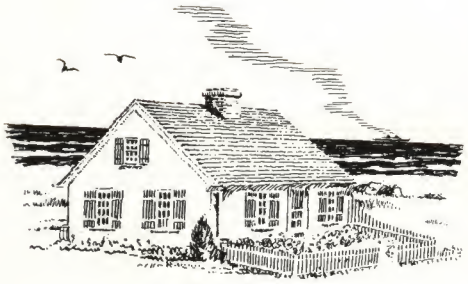
The jacket extension easily lifts off and on. In fact it has a convenient handle on each side for just that purpose.

Just another of the many so called "little points", that have been given true Burnham consideration.

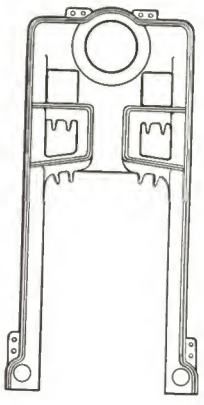
JACKET EXTENSION ENCLOSING THE OIL BURNER

You don't have to enclose the burner. But it does make a more attractive looking job.

Besides, it protects the burner from the children or any busybody tinkerer.



The Junior Yello-Jacket is so good looking in every way that it just don't look like a boiler. It's more like a fine piece of colorful cabinet work, which in a way is exactly what it is.



Here's one of the three sections that go to make up the boiler. Note how long the sides or legs are. That's because those legs make the base as well as the combustion chamber. Cuts down the cost of set up. Gives an additional economy, as every part of the boiler excepting the bottom, is completely water surrounded—another economy point.

The New Burnham Junior Yello-Jacket Designed Especially For Small Homes

You know there is a fellow they call "Old Man Diminishing Ratio". He's a bothersome sort who causes a lot of trouble.

Here's how he works. Suppose for example you have a small table that just suits you in every way. It's so satisfactory you decide to have a larger one made following the proportions exactly.

By all that's reasonable it should be just as good looking as the other. But it somehow looks funny, seems out of proportion. That's where Old Man Diminishing Ratio comes in. He works both up and down.

Now from the down side let's take a boiler. A fair sized one for instance that performs satisfactorily in every way. By all that's reasonable its satisfactory performance should continue in a small size for Small Home Heating. But it just doesn't work that way. The Old Man steps in and makes trouble.

So that's why we have made this especially designed Burnham Junior Yello-Jacket just for Small Home Heating.

Of course it has many of the features of our other boilers. But it is not a case of papa's pants being cut down to fit Willie. It's an out and out new boiler made out of whole cloth, so to speak.

It's made to do the most economical job possible, of heating Small Homes. Ones having four, five or even six rooms. It's moderate in cost as it should be. It has the same fuel stinging economy of the Yello-Jacket Boiler told about on pages 20 and 21.

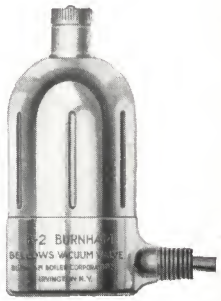
It has a Biltin Taco Tankless hot water supply heater for both kitchen and laundry. Gives you plenty of hot water in the most economical possible way. No storage tank needed. Or a Biltin Storage Type Taco Heater can be furnished.

Because the light dandelion yellow finish and design of the jacket has made such a hit, this Burnham has one like it. It also has the same front porch, or removable jacket extension for covering the burner when using oil. There is however no separate base. The boiler proper and base are all in one piece, making the whole boiler water surrounded, which is an economy feature of itself, especially when burning oil.

It also cuts down installation costs as the boiler is shipped all set up, ready to put right on the floor and connect up, quite like a refrigerator comes to you. The only difference is the jacket has to be put on, which takes no time at all it goes on so easily.

Here then is as perfect a boiler for Small Home Heating as your money can buy. One in which Old Man Diminishing Ratio has been given the loud laugh.

How Burnham Air Valves Save You Money



Burnham No. B2 Chromium plated Adjustable Radiator Valve

It quickly lets the air out and then closes tight so it can't sneak back in, when the radiators cool down.

WHETHER YOU'LL ADMIT IT OR NOT, air is radiator heat's biggest enemy. It is the fighting out of the old law that two things cannot occupy the same space at the same time.

If there is air in your radiators, the steam will do its best to push it out. If there is no vent place, then it will try to compress it—and the battle is on. Sometimes you hear the struggle, in disagreeable knockings and bangings.

Often it results in only a portion of your radiators heating. Or, if you have air venting valves that are not any too good, the air may be let out so gingerly that the slow creeping across of the heat makes you disgusted with the whole heating system.

You may be burning plenty of fuel and still getting only stingy heat. So see to it that each one of your radiators is equipped with Burnham dependable air valves.

One kind lets the air out, but soon as the heat dies down a bit, lets it creep back in. Most valves, sorry to say, are that way.

By far the better way is to use the Burnham Valve that both lets the air out and then keeps it out. They cost more, because obviously they are worth more.

It is a smart idea to also vent the mains. That means they are at once freed so the steam can quickly get to your radiators. The air that would otherwise be pushed into the radiators, is let out before reaching them.

Some folks cut costs on their heating by using cheap valves that soon clog up and cease to function.

Burnham valves are chromium plated, and when rightly installed, are unconditionally guaranteed for one year. So see to it that you get Burnhams.

Burnham Air Valves are available in the adjustable or non-adjustable types.

Burnham No. B4 Chromium plated Adjustable Valve

for Mains, Coils and Risers

Burnham No. 6 Valve

for quick venting of air in mains

Your Questions Answered

THESE QUESTIONS are the ones which are most asked either by letter or in person. Some of them may cover just the things you may also want to know. So here they are: However, don't hesitate to ask us anything else you may have in mind. You will find us rather pleasant people.

ABOUT HEATING IN GENERAL

1. **Which costs less to install, Hot Water or Steam?**

   Steam costs less.

   Hot Water costs more because with the natural flow, or gravity system, the radiators have to be larger and double the piping is necessary.

2. **Why does hot water require large radiators and twice the piping of steam?**

   With steam, the one pipe carries both the steam from the boiler to the radiators, and the condensation from the radiators back to the boiler. With hot water, the entire system is filled with water, and in order to keep in constant circulation must have the same size pipes leading from the radiators to the boiler, as from boiler to radiators.

   The radiators have to be much larger because hot water seldom gets much above 180 degrees and averages about 140; while steam is always at least 212 degrees.

   To get the same result from hot water as steam, you

therefore, must have a larger radiator to make up the difference of from about 40 to 70 degrees.

3. **Do I always have to have Two Pipes on Hot Water System?**

No you don't.
There is the one pipe Venturi automatic system for oil, gas or stoker fired coal, which we heartily recommend.
A one pipe circuit is made practical by using a circulator to increase the flow speed of the water through the radiators and back to the boiler. In addition, there is a Venturi-One fitting connected to each radiator, which in turn, automatically pulls the water through the radiators faster. It's all thermostatically controlled.

4. **Which burns the least coal, hot water or steam?**

Some claim there is very little difference in the coal you burn. But hot water has an advantage in the way the latent heat in the water keeps right on heating a considerable time after shutting the fire entirely off. When you start the fire you do not have to run the water up to practically boiling point before you get any returns, as with steam.
Hot water begins heating as soon as there is enough heat in it to make the water circulate. Just logically it should save fuel.

5. **Can I enlarge a Burnham if we should later on decide to enlarge our house, or must I either buy too big a boiler now, or get an entirely new one then?**

Most assuredly you can add to a Burnham as you add to your home. It's built in sections, quite like a sectional book case.
It's one of the strong points in practically all Burnhams.

6. **How does Vapor or Vacuum system differ from steam or hot water?**

By the use of specially constructed valves, a partial vacuum is created in the pipes and radiators which lowers the boiling point of the water, allowing a hot vapor to enter the pipes several degrees before the boiling point of the water is reached.
The condensation is returned to the boiler by separate small pipes, insuring absolutely no interference with the passage of the vapor.
The partial vacuum created, holds the heat, and the valves prevent the air from returning to the system. Therefore, the radiators hold the heat longer than steam radiators.
The radiators are about the same size as for steam. In effect, you get approximately the same even temperature and economical results as with hot water, with rather more flexibility. Vacuum Systems cost approximately the same as hot water.

7. **Is there some way of having hot water for kitchen and bath without a separate boiler?**

Yes indeed there is. You can connect a Taco hot water heater to your boiler, which will heat the water in a storage tank. Or you can do away with a tank by using a Tankless Taco Heater which is also connected to the outside of boiler. It heats the water instantaneously, as drawn from the taps.
Happily for you, practically all Burnham boilers have a Taco Heater built right inside them, out of sight and out of the way. They are a direct part of the boiler and highly efficient.

8. **Which is better the round or square boiler?**

Glad you asked that question. It's important. Just turn to page 18.

9. **Do we have to buy a Burnham direct from your boiler plants?**

Not at all.
All heating men know about Burnhams, even if they may not have them in stock.
You can buy direct from them, and they will order it from us.
Should there not be a heating man in your town, will be glad to have you write to us direct, and we will put you in touch with one.
If you are building or remodeling, and employing an architect, see to it that he specifies a Burnham in your heating specifications.
To insure prompt deliveries we have a stock of boilers in fifty main distributing centers.

10. **If I buy a Burnham can we be sure of always getting parts?**

Just as sure as you can of any boiler.
We have been making boilers for over 70 years and never failed anyone yet.

Questions about OIL HEAT

1. **Do I have to have special radiators or piping for oil heating?**

Most assuredly not. The same radiators, the same piping used for any hot water, steam or vacuum system, are used. However, before you decide on the kind of radiators, be sure and give careful consideration to the Burnham Slenderized ones, as told about on pages 8 and 9.

2. **Do I have to buy an out-and-out oil burning boiler? Can't I use an oil burner with my present boiler?**

Of course you can, and often with satisfactory results. But so much depends on the type of boiler you may have. All Burnham Boilers because of their particular design, give fine results with the attached burners. But the special Burnham Oil Burning Boiler has certain built-in features and automatic controls which you may feel are a distinct advantage.

3. **How about the oil tanks, must I dig a big hole in my yard and a ditch for the pipes from it to the burner?**

Not at all. Most States now permit the placing of tanks inside, near the boiler. It is always good to have an ample size tank so you have enough oil in reserve in case of emergencies.

4. **How about the comparative economy of automatic oil as against hand-firing of coal?**

Put it up to your local man. He can give you definite figures. But here's a point you should bear in mind. The burning of oil is entirely automatic. No coal to

shovel. No ashes to be taken care of. Your rooms need never get chilly because of the fire "going down" and having to wait for it to "come up," as it's called. Practically the instant the oil burner goes on, a full volume of heat is produced. You can have your house warmed the same at night as during the day at very little, if any, additional cost. That's because it costs less to keep a uniform temperature, than to let it down during the night and then have to overcome all that accumulated cold by running the fire harder and longer.

So even if you are located where coal may be somewhat cheaper, the comfort and practically entire freedom from attention required by oil, over-shadows any variance in cost.

5. **How about noise?**

By noise you, of course, mean the burner. As for the mechanism of the burner itself — the electric driven fan mainly — that has been so perfected it is of no consequence. It is the noise of the burning flame that could be the most disturbing. But that is largely a thing of the past. With our De Luxe boiler everything is built into the Boiler. Everything, burner and all, is enclosed inside the jacket. The burner chamber is lined with a sound deadening material. Even the door. You can rest assured that any burner you may put in this sound-hushed DeLuxe Burnham will be so quiet you and your guests will never know when it is either on or off.

6. **Is there any danger of something happening and the oil leaking out all over the place?**

How about your water system, are you afraid of that happening? Would you go without piped water through your house, just because now and again a leak happens? With the valving and automatic controls now used there is no more danger with the oil than the water. In fact less, because the oil isn't under any pressure at all until it reaches the flame nozzle that is inside the combustion chamber or fire box.

7. **Suppose anything happens to the insides of the Burnham Oil Boiler, how can anyone get inside the jacket to fix it?**

Well, before the jacket is put on, the boiler and all the connections are first made. The jacket is no more than your overcoat is to you. If anything, it's easier to take your coat off than put it on. There's your answer about the Burnham jacket.

8. **Is there any odor?**

Not in the least, if the installation is right and the burner is kept reasonably clean. The first you would insist on anyway. The other you would see was done just because it is common sense. Besides, every once in a while there is a gas from coal. But you never heard of anyone going back to wood, just for that chance occurrence, did you?

9. **How about the dirt? Is oil heat clean?**

There's no smoke, no ashes, the fire that burns up everything.

10. **How about the jacket on the Burnham Oil Boiler, does it give as good an insulation as the asbestos cement applied directly to the boiler?**

Better. Far better. That's proven by the coolness of the jacket. You can put your hand on it at any time. The Burnham jacket is heavily lined with a combination of insulating and sound deadening materials. So you see, it is something more than mere looks back of the way Burnham jackets a boiler. It adds to looks, lessens noise, and it also spells economy.

11. **Suppose I have trouble with the boiler, who is going to make it right?**

Go to the dealer you bought it from. If it's his fault, he will make good. If it's our fault he will take it up with us and you can depend on our being only too glad to see it's made right. We want our Burnham users satisfied. It isn't just being pleasant on our part. It's good business. Pleasant dealings and good business, happily make the best of teams.

12. **Where can I buy a Burnham Oil Burning Boiler?**

We don't sell direct. That is, from our factory direct to you. They must come through some dealer or contractor. If you don't happen to know any such in your section, just let us know and we will arrange all that for you.

It is distinctly to your advantage to have your heating boiler installed by an experienced dealer, who is handy by, and can give your burner prompt servicing.

Questions on STOKER FIRING

1. **Having concluded I want automatic heat, how shall I go about deciding whether to make it oil or stoker fired coal?**

Well, that's not such a problem. One thing sure, however, if you ask your friends who have oil, they can't sing its praises enough. In turn, the same song of complete satisfaction will be sung by the stokerites. So why not ask us all the questions that are on your mind, and we will try to answer every one of them.

2. **All right then, what I first want to know is the comparative cost of each.**

In the last few years as the number of oil burners sold have increased, so has their cost decreased. The perfecting of stokers has been slower, and sales accordingly, so that in general, they have cost more. But they don't cost any more in the long run. Just why, have a notion some of your other questions will fully bring out.

3. **Will a stoker save me money?**

Yes, it will. If you have been burning coal, hand-firing it, there will be a decided saving. For example, take the usual size of Anthracite used in boilers. Its cost varies from $12 to around $14.50 a ton anywhere within say 500 miles of New York. With a stoker you can burn a fine grade coal costing from 6 to 9 dollars a ton delivered. Don't know how many rooms your house has, or is to have, but let's say it requires 10 tons to heat it with hand-firing size coal. At $12 that would be $120. At $14.50 it would be $145. With the stoker it would cost from 60 to 90 dollars. A saving of from 55 to 60 dollars. Suppose, therefore, the first cost of the

stoker is more than an oil burner, the saving on cost of fuel soon overcomes all that, and still you keep on saving that 55 to 60 dollars, year by year. Of course there is the cost of electricity to run them same as with oil burners. But that's a small item.

4. **But, you ask, isn't Oil cheaper than Coal?**

Well, its average cost is just about the same as Anthracite at $12 to $14.50 a ton, depending on the locality.

5. **How about the electricity used? Does a stoker take more?**

No, it really doesn't. But supposing it did, you have that large saving on fuel cost to many times offset it. So that possible objection is out.

6. **What about the nuisance of ashes with stoker-fired boilers?**

Frankly, that is the only possible objection to stokers. But after all, isn't it a rather over-emphasized one? Present day stokers automatically remove the ashes from the boiler and dustlessly deposit them in cans. It is no longer a messy, dusty job. Just remove the filled can and replace with an empty one. Sort of like setting out the milk bottles.

7. **Some of my friends tell me a stoker takes up more room.**

Yes, they do. That is to say they do, if you are comparing an oil burner that is Built-in the boiler—a direct part of it. Of course, then the whole outfit is only as big as the boiler itself. However, if you compare a Conversion boiler, one with the burner on the outside, then the new designed stokers take up but little more room.

8. **What about the work of filling the stoker hopper?**

You don't need to. Present day stokers automatically bring the coal direct from your bin to the boiler. Fill the bin and the stoker does the rest. This automatic feature does add a bit to the first cost of the stoker. So if you are figuring your first cost with a very sharp pencil, then why not have the hand-filled hopper? No trick to do it. It's a lad's job, in fact. Fill it every 24 hours during the Winter, and every 3 or 4 days in the warmer months. That is, if you intend to use your boiler to furnish all year round hot water, as so many have found the advantage of doing.

9. **Does a stoker need more servicing than an oil burner?**

No, it doesn't. A stoker requires no more attention than your ice box. Most stoker concerns have a yearly inspection service, which includes vacuum cleaning your boiler, going over the stoker, oiling and putting it in apple-pie order. It's well worth its nominal yearly cost. In some places the coal companies selling stokers, so we understand, do this once a year servicing free.

10. **What happens if the electric current goes off?**

Exactly the same thing as happens with an oil burner, or your electric refrigerator. It stops. But with a stoker the bed of coals will hold fire for 3 or 4 hours. You can also burn wood to tide over the interval.

11. **There's one more question nearly forgot. How about the noise?**

There's practically no more noise with present day perfected stokers, than with an oil burner or an ice box. So now that you have asked all the questions you could dig up, let us remind you of this. We make all kinds of boilers for every place and purpose. Cast iron ones. Steel ones. Gas burning boilers. Boilers for oil, coal or coke. For more than half a century we have been making boilers. So doesn't it look to you as if we ought to know how best to make them?

Questions on Gas

1. **Do you think gas is the coming fuel? There seems to be a lot of talk about it.**

Frankly now, we don't claim to be any prophet. But one thing sure, it is fast on the gain.

2. **What has started all the talk about using gas for home heating?**

Well, in the first place, it is entirely automatic. Just as much so as the water in your bathroom. No filling of bins or tanks. No ashes. No odor, No bother. No noise. Simply a case of connecting up the pipe, and there the gas is, always ready for use at any time.

3. **What is meant by its being entirely automatic?**

Mostly it means, there are no bothers. Not only is the fuel supplied automatically, but the whole control of its burning and the amount of heat in your home is under full automatic control.

4. **Do gas boilers cost more than coal or oil boilers?**

Gas boilers cost more than coal boilers because of their automatic controls, but cost less than a boiler-burner unit.

5. **How about the cost of running them?**

Glad you asked that question. The answer is, if you are in a section where there is natural gas, they generally cost less to run than with anthracite coal or oil. Bituminous coal is of course somewhat less costly than natural gas. The gas companies pretty much all over the country are making very attractive new rates for home heating. This makes it possible for many a one to use gas to whom the cost was prohibitive before.

6. **Suppose it should cost somewhat more, is it worth it?**

Don't know as we can exactly say what a thing is worth to you. So let us in turn ask you a question. Is it worth something to you to have an entirely botherless heat? One the fuel supply for which is always there. One that is entirely automatic in every way. One that has a pay-after-you use advantage. One that is always on tap so to speak, at any time of the year, for as little or as much heat as you need. Also remember that 24-hour free service is available from your Gas Company should it ever be necessary. Assured comfort, entire convenience and a total freedom from care—don't you feel all these are worth something to you? So far as we are concerned, our company makes boilers for all kinds of fuel, putting us in an unprejudiced position. So we have tried to answer all your questions with absolute frankness.

Questions on Air Conditioning

1. **Is the Burnham Air Conditioner an all year around one, doing cooling in summer?**

   Yes and no.
   It is strictly speaking a winter air conditioning system, the time when conditioning is most needed for health and real comfort reasons.
   Although it is equipped with no cooling device, however, it does circulate the dead summer air after the manner of an electric fan.
   There is no draft, no danger of cold taking. All the air in the room is *evenly* circulated, not just pushed from one place to another.

2. **Does it help asthma and hay fever?**

   Most emphatically it does.
   The washable glass wool filter captures the pollen to a high degree, alleviating and in some cases giving entire relief.

3. **Does it do a complete winter air conditioning job without the use of ducts, registers or grilles?**

   Most assuredly it does. Anything and everything that any duct system does, the Burnham does, only in a simpler way at far less cost.
   It has the added advantage of individual room control. But still that isn't all, you have both radiant and convected heat in rightly balanced proportions. A very essential point for your comfort and heating economy.

4. **How is the humidity controlled?**

   The reason humidity is so vital in the winter, is because the heating dries the moisture out of the air. That conditioner therefore is the best, which puts back just the natural amount that the heat dries out, restoring a healthful balance.
   That's exactly what the Burnham does. But it does not keep on adding additional moisture beyond that restored balance. Systems that do that, are apt to cause excessive moisture, causing clouding of windows, which not infrequently means that moisture runs down on the sill.

5. **What equipment do I have to have in my basement?**

   Absolutely none. No ducts. No fans, no anything but just a Burnham Boiler, and the usual pipe to the radiators. The air conditioner is in form of a radiator that heats besides air conditioning. It's located upstairs in the rooms.

6. **How much room does the Burnham Conditioner take up?**

   Practically no more than the usual grille enclosed radiator.
   It fits under any average window. Can be partially or entirely recessed exactly like a radiator.

7. **Do the Conditioners do any heating?**

   Most emphatically yes.
   Exactly the same as any radiator.

8. **Does it circulate odors and disease germs as duct systems are said to do?**

   All duct systems *recirculate air from the entire house.* Odors and germs along with it. There is no way to prevent it.
   The Burnham with its separate conditioners, instead of a central method of distribution, permits of isolating any room, and still not in the least effecting the heating efficiency of the system.

9. **Of what does a complete Burnham Heating and Air Conditioning System consist?**

   First there's the boiler and Burnham Slenderized radiators for steam, hot water or vapor. With automatic stoker, oil or gas fuel, the boiler can take care of your hot water for kitchen and bath.
   No separate hot water supply boiler needed.
   The only difference from a regular radiator heating system is that in place of some radiators, a conditioner is used, which does both heating and air conditioning.

10. **How many Unit Air Conditioners do I need?**

    The only rooms in which air conditioning is primarily needed is the living room, or dining room and possibly the master's bed room.

11. **Is a Conditioner necessary in a bed room, where the windows are generally open when used for sleeping?**

    If the user has pollen asthma or hay fever, the outside air can then be introduced solely through the conditioner, taking out the pollen and giving decided relief.

12. **Do I have to look after the Conditioner, turning it on or off or filling it with water?**

    Not at all. Everything is automatic. Each Unit is controlled by its own separate thermostat. Or it can be operated by your regular thermostat the same as your radiators are. For summer use in circulating the air, there is however a hand switch for the fan.

13. **Must I put in an entire new Burnham heating system to get the advantage of the Burnham Air Conditioners?**

    No indeed. One or more can be used in connection with *any* existing radiator heating. All you do is simply replace a radiator with the conditioner.
    The same piping that does for one, does for the other.
    No cutting of walls or floors for grilles or registers.
    No ducts to be installed. Any heating men can install a Burnham Air Conditioning Unit in a few hours.

IRVINGTON, NEW YORK

Burnham Boiler Corporation

ZANESVILLE, OHIO

BRANCHES

BALTIMORE, MD.....1201 Haubert St.	GENEVA, N. Y.....Gates Ave.	PITTSBURGH, PA.....301 Brushton Ave.
BOSTON, MASS. (Cambridge).....298 Albany St.	IRVINGTON, N. Y.....2 Main St.	QUEENS VILLAGE, L. I.....222nd St. & L. I. R. R.
CHICAGO, ILL.....1038 South Kolmar Ave.	LANCASTER, PA.....Dillerville Road	SPRINGFIELD, MASS.....153 Plainfield St.
ELIZABETH, N. J.....701 Spring St.	PHILADELPHIA, PA.....31st & Jefferson Sts.	ZANESVILLE, OHIO.....Licking View

CANADA

TORONTO.....Harbour Commission Bldg.

CHINA

SHANGHAI.....Route 30, Cardinal Mercier

PLANTS—Elizabeth, N. J.—Zanesville, Ohio—Lancaster, Pa.—Geneva, N. Y.

Printed in U.S.A.
by Barr-Erhardt Press, Inc.
New York, N. Y. 9-39

Designed and Prepared by
Tuthill Advertising Agency, Inc.
Chester, New York

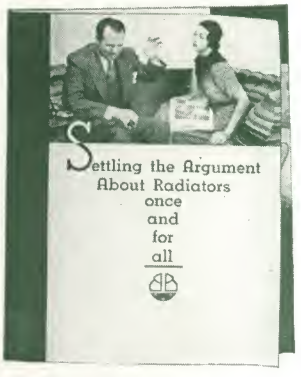
These Burnham Heating Help Books Sent Free

(1) Your Home
How to Winter Air-Condition it

Be sure and send for this booklet. It gives you in a sincere, understanding way, various points and the different sides of the most important questions on Air Conditioning, as it applies to the comfort and health of your family.

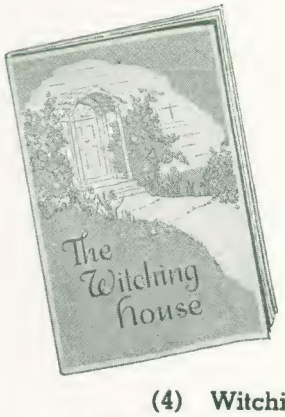
(2) Automatic Cosy Comfort

It has mainly to do with heating with oil. Told in a friendly, folksy way, quite as if one of your neighbors had dropped in to talk it over. Gives you a clear idea of exactly what automatic heat does for you, in assuring you contentment of mind and comfort of body.



(3) Radiators

By all means send for this radiator printment. There is so much more to getting the right radiators and the right amount of heat from them, than you might think. There are plenty of illustrations and help hints. Am sure you will find things in it which if you don't happen to know, you will certainly want to. Might save money.



(4) Witching House

A delightful, personal, home-making experience as told by a man and wife. They bought an old Vermont Colonial farm house and fixed it up. To heat it was a vexing problem which *he* finally solved with *her* very important help. It's a truly charming human tale filled with unexpected help-hints. The way it mixes cards and cupboards, and heat and honey, is indeed illuminating.

(5) Lest You Forget

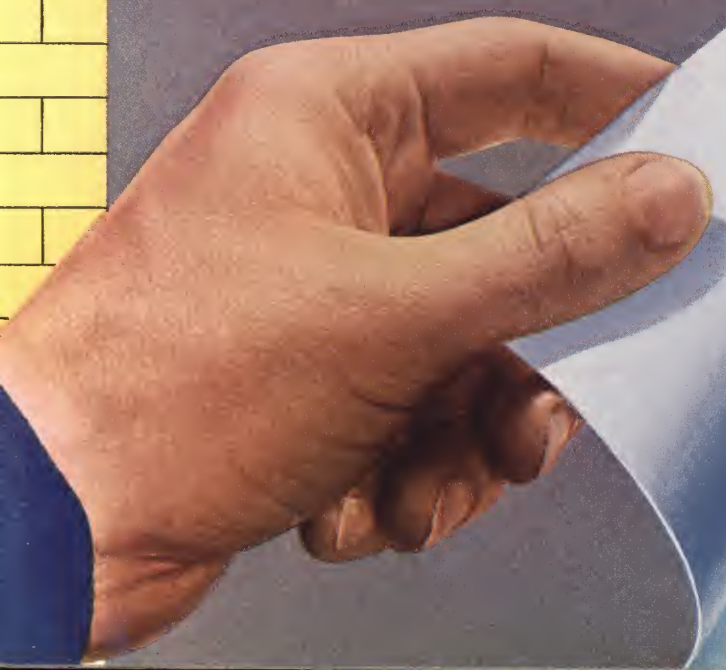
It starts by putting a string around your finger, and then tells you how it will help you from forgetting. Help you with the things, the remembering of which, helps to get the most heat, from the least coal, with the least bother. Of course, if you are going to burn gas or oil it doesn't fit into your picture.

Burnham Boiler Corporation
IRVINGTON, NEW YORK

YOUR LOCAL DEALER
Presents

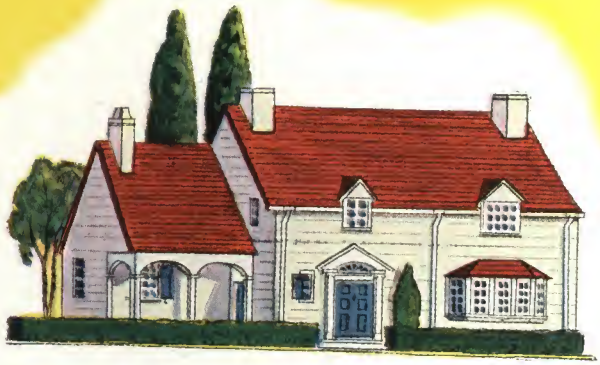
Carey
PRODUCTS

READY TO SERVE YOU



DEPENDABLE MODERN BUILDING MATERIALS

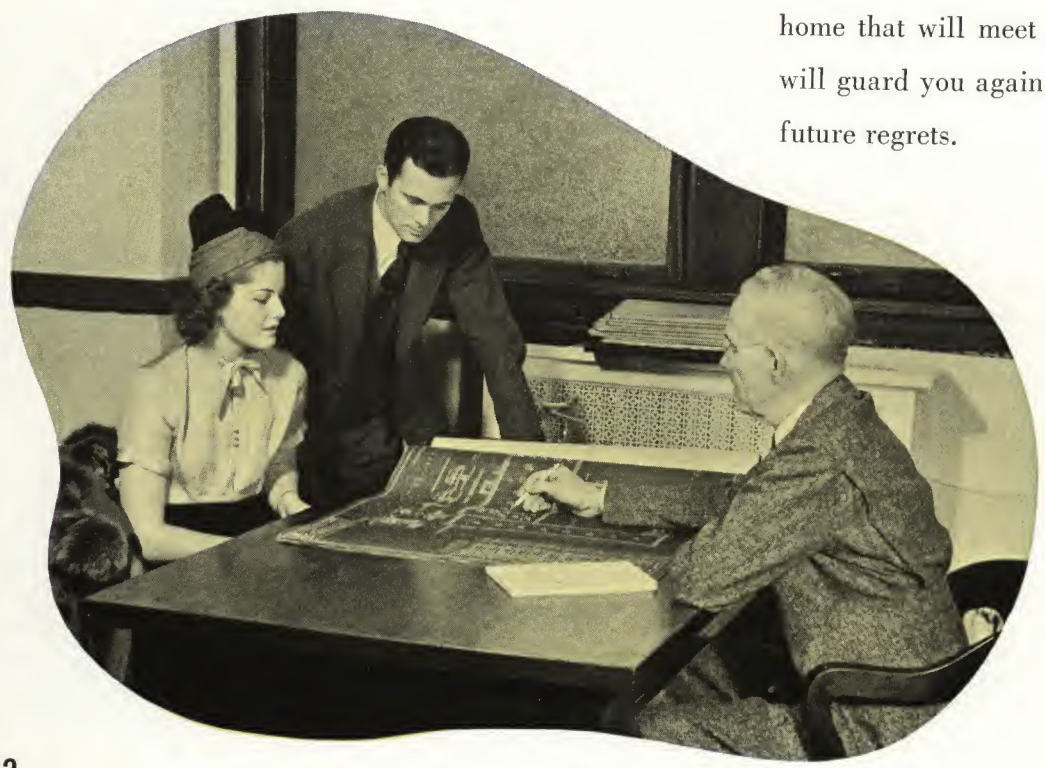
Our Service Helps You obtain THE MOST AND BEST for YOUR MONEY



When you are planning to build, you have many decisions to make. These are decisions of importance, because it is not easy or economical to change after your building is completed. It is therefore in the planning stage that our services can be of most value to you, and we offer them, without any obligation on your part.

To buy or build a home that will meet your expectations and prove a good investment in the end, requires careful consideration of several fundamentals: (1) Inside plan that will suit the needs and contribute to the comfort and convenience of the family; (2) Outside design that will present an attractive appearance and enhance value; (3) Sound construction by a reliable builder; (4) Long-life modern materials that will protect your investment through permanence and low maintenance costs.

To make sure of these basic essentials in your new home, it will pay you to engage the services of a competent architect. His experience will insure a home that will meet your requirements; his advice will guard you against mistakes and save you many future regrets.



the modern home has PLANNED COMFORT AND ECONOMY

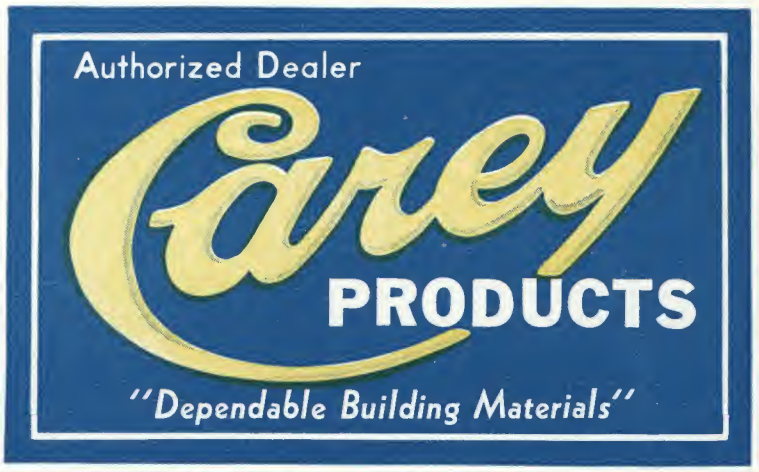
There is one factor entering into home building that must be given careful consideration—that is—the materials themselves. For the improvement in many building materials has been extraordinary in the past few years, particularly in the manner in which they affect comfort, permanence and low upkeep.

Quietly, in the secrecy of the research laboratory, Carey scientists have been developing new and improved building materials. Some of these modern Carey materials add new comforts—comforts and economies you cannot afford to be without—for they return in fuel savings more than they cost. Other Carey materials pay their way in fire safety, lower-cost insurance, in elimination of painting, in lifetime service. All Carey Products reduce upkeep in the extra services they render.

Tell your architect or builder you wish to use Carey Products. He will be glad to specify them, for the good reputation of Carey Products is the result of sixty-six years of continuous experience in the manufacture of dependable building materials.

It is the purpose of this book to show the advantages you can build into your home by using products of assured quality. We will show you samples, styles and colors of roofing and siding and many other materials, so you may better judge just what you want. In short, we invite you to make us a service office for all of your building material requirements. It will not obligate you in any way to confer with us, and it will enable you to get the most and best for your money.

YOUR LOCAL
CAREY DEALER



SHOP LOCALLY AND WISELY

We take pride in the great organization of Building Material Dealers who distribute our products, and so ably serve their communities. A dealer, understanding the local conditions affecting building can naturally offer you many advantages. His daily contact with many sources of supply keep him abreast of the newest trends in materials and their application—he is familiar with financing and other details on which home owners desire information. You will find him a good man to know and to council with on any phase of home building.

THE PHILIP CAREY COMPANY
GENERAL OFFICES
LOCKLAND, CINCINNATI, OHIO, U. S. A.

MATERIALS-DESIGNS AND METHODS

described in this book

roofs	*Careystone Asbestos-Cement Shingles, the permanent fireproof roofing that never needs painting . . .* *Carey Asphalt, Individual Shingles—colorful, fire resisting . . .* *Carey Cork-Insulated Shingles—combine roof and roof insulation—at roof cost only . . .* *Carey Strip Shingles—attractive, economical . . .* *Carey Rocktex (Rock Wool) Home Insulation—for year 'round home comfort.*
floors	*Carey Building and Sheathing Papers for use under flooring.*
side walls	*Careystone Siding—in shingle and Clapboard units. Fireproof—never requires paint.* *Careystone Sheathing for use in dormers, panels and other exterior wall areas.* *Careystone Wallboard for interior walls, ceilings, partitions.* *Carey Rocktex (Rock Wool) insulation for side walls.* *Carey Building and Sheathing Paper under siding.*
partitions	*Careystone Scored Sheathing—economical tile effect—for kitchen, breakfast room and bathroom walls.*
foundation	*Carey Damp-Proofing and Waterproofing Materials for basement walls . . .* *Careystone Wallboard—applied to basement ceiling for fire stop.*
heating system	*Careycel Insulation for hot water and steam heating systems . . .* *Carey Tank Jackets—for hot water tanks . . .* *Carey Pipe Covering for cold water lines, soil pipes, etc.* *Careycel Insulation for Air Conditioning Ducts . . .* *Careyduct—the all asbestos Air Conditioning Duct.*
sidewalks and drives	*Carey Expansion Joint—to prevent unsightly cracks in concrete work.*
bathroom cabinets and accessories	*MIAMI-CAREY Cabinets—combine modern design with utility and rugged construction—a complete line of accessories.*

WE ARE AS CLOSE TO YOU AS YOUR TELEPHONE FOR THESE AND OTHER QUALITY BUILDING MATERIALS

Your Local Carey Dealer

other people look at roofs first ...and so shall we

NEXT time you walk or drive down the street, notice that you see the *roof* of a house before you are conscious of any other part.

A proper roof is like a hat that supplements and completes the attire of a well-dressed person. Because the roof is so conspicuous, it should be attractive and in complete harmony with the style and color of the home. Because of the service it must render, it should be of a quality about which there can be no question.

The roof has a responsibility next in importance to the foundation. It must protect everything under it, from the furnishings to the building itself. The roof, therefore, is NOT the place to practice "cost cutting" when you build.

Through years of research and experience, Carey has developed a line of roofs from which you may select the one that will best harmonize with the architecture of your home. Carey roofs are available in a wide range of prices to suit any building budget. But regardless of which Carey roof you choose, you are sure of maximum service for every dollar invested. Extra value is a fundamental of every Carey roof.

★

TO THE LEFT—reproduction of a direct color photograph of an attractive white brick Colonial home—roofed and protected for all time with Careystone Asbestos-Cement Shingles.

ROOFS THAT COVER YOUR INDIVIDUAL NEEDS

Careystone

ASBESTOS-CEMENT SHINGLES

Made of the imperishable materials, asbestos fibre and Portland cement, Careystone Shingles possess the peculiar property of increasing in toughness upon exposure to the elements. They are fire-proof, wear-proof and rot-proof—permanent as stone and, in appearance give an exact reproduction of wood grain—a beautiful roof that never requires painting or other upkeep.

Carey

CORK-INSULATED SHINGLES

Provide a durable, storm-proof roof plus insulation against heat and cold—at a cost very little above that of ordinary asphalt shingles. Where roof insulation is desired, this shingle affords considerable economy, since no additional labor or material is required in laying. The Cork-Insulated Shingle makes a finished roof of pleasing appearance, with deeper shadow lines due to the extra thickness.

Carey

ASFALTSLATE SHINGLES

Famous for their long wearing quality and natural beauty. They are proof against ordinary fire risks—low in upkeep, as they never require painting. Asfaltslate Shingles, both individual and strip, are manufactured on a base of tough rag felt, thoroughly saturated and coated with asphalt. To this is applied a layer of colored mineral granules, providing a durable wearing surface in natural colors—a roof of lasting beauty.

Carey

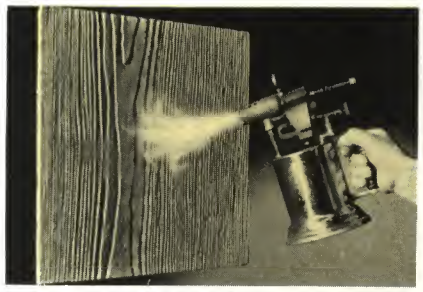
LOCAL DEALER SERVICE

STEP IN AND SEE ACTUAL PANELS OF THESE SHINGLES AT OUR OFFICE— OR WE WILL BRING THEM TO YOU. *YOUR LOCAL DEALER*

We Find That Many Builders Will Have Nothing Else But

Careystone

ASBESTOS-CEMENT SHINGLES



CAREYSTONE WILL NOT BURN. The searing flame of the blow torch can find nothing in this shingle that will ignite. You owe yourself the protection from outside fires afforded by this modern roof.

You wouldn't think of building a home without a permanent foundation. Can you afford to build without a permanent roof?

A permanent roof reduces your upkeep and repair expense; insures you against costly leaks; against fire hazards; lowers your insurance rates to the minimum; saves you the cost of ever having to rip off old shingles and pay for a new roof. Then, too, there's a feeling of security in living under a roof you know is fireproof—a roof on which sparks, embers, even burning brands fizzle out harmlessly.

All these advantages—these savings—are yours to enjoy when you roof your home with Careystone Asbestos-Cement Shingles. Once laid, your roof worries are over.

All Careystone Shingles, with the exception of the French method, have the appearance of wood shingles, the texture being an authentic reproduction of wood grain set in everlasting Portland cement and asbestos fibre. By a scientific process, these two lifetime materials are combined under great pressure, forming a shingle that will last as long as the building.

Careystone Shingles "pay their way" in permanent service and in elimination of painting and other upkeep expense.

Budget and Architecture Meet on a Common Ground with

Carey

ASFALTSLATE SHINGLES

CONVENTIONAL in design, the Carey Asfaltslate Shingle is adaptable to many architectural treatments . . . assures a roof of long life and distinctive beauty at reasonable cost.

Made especially rugged and substantial to insure extra years of trouble-free service. A layer of colored mineral granules provides a beautiful and durable wearing surface. Full three thickness coverage assures maximum roof protection.

Asfaltslate Shingles are proof against all ordinary fire risks, such as flying sparks from chimneys and burning brands from neighborhood fires. You protect your home against fire, weather and time, when you roof with Carey Asfaltslate Shingles.

THE CERAMIC GRANULES used in the manufacture of Carey Shingles are made by applying a high-temperature, fusible, colored glaze to a mineral granule base and firing the glaze into the surface of the granule at a temperature of around 2000 degrees F. The mineral pigment colors and the firing conditions are very similar to those used in firing the decorative pattern on china or porcelain dishes. The color of the granule is just as permanent. It cannot fade or wash off.

Carey Cork-Insulated Shingles

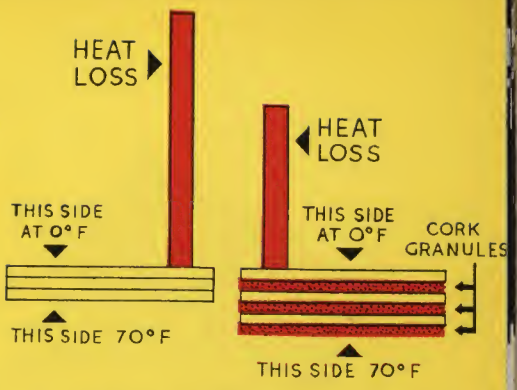
GIVE TWO VALUES AT ONE COST

THIS is the only asphalt shingle with outside mineral surface for weather protection; cork underside for insulation. The cork layer acts as a barrier to heat and cold; makes the home several degrees cooler in summer and correspondingly warmer in winter.

This effective roof insulation is automatically applied when the roof is put on, eliminating the extra cost of material and labor involved when separate roof insulation is used.

Fuel Savings Pay the Bill—A study of actual roof conditions shows that for a roof of average area (15 squares), with an average difference between indoor and outdoor temperature of 40 degrees F., the home owner who burns fuel at $9 per ton can save during a single heating season the difference in cost between an ordinary asphalt shingle roof and a Carey Cork-Insulated roof . . . and these savings continue year after year.

Carey Cork-Insulated Shingles are approved by Underwriters' Laboratories—assure a beautiful and distinctive roof; long, dependable service.



A GRAPHIC REPRESENTATION of the heat loss* through three layers of Carey Large Individual Shingles (5 inches exposure and spaced ¾ inches apart) compared with an identical application of Carey Cork-Insulated Large Individual Shingles, under the same test conditions, namely, a temperature difference of 70 degrees F. between the inner surface and outside air.

*B.T.U. heat loss per square foot, per hour.

Three thicknesses of cork provide insulation, and this added thickness makes a more attractive roof with deep shadow lines.

YOUR CHOICE OF HARMONIOUS

Slate Green
Asfaltslate

Tile Red
Asfaltslate

DEPENDABLE, waterproof protection will always be the first essential of a good roof.

Yet the roof must satisfy another important requirement—appearance. Because the roof is the largest single area in the house and the dominant feature of its exterior, it should be in complete harmony both with the style of architecture and the color of the building.

Today, more than ever before, outside appearance is an important factor in home value. Home buyers want a roof that emphasizes the character of the home—that gives it dignity and charm. Here, color plays a vital part.

Carey Shingle colors have been developed through years of careful study and experience in satisfying individual preferences of home owners and the rigid requirements of architects.

Carey Shingles are available in an adequate range of nature's own colors—warm reds, cool greens and beautiful blended tones, as reproduced on these pages. These colors harmonize with architecturally correct home exteriors and through combination of colors, an almost endless variety of

The Emeralblend—one of the attractive blends now available in the Carey Asphalt Shingle line. The others are Red, Harvest, Russet and Green Blends and Verdeblend.

ROOF COLORS THAT ENDURE

The Careystone Scotch American Shingle. Note the natural looking wood grain and the effect of individual shingles laid in random widths with staggered butts.

effects may be secured, to meet the demands of any individual taste.

Carey Shingle colors are permanent. They cannot fade or wash off when exposed to the weather.

Carey will be glad to supply you with samples, so you may try them in various combinations and make sure your final selection will be right.

Visit our office or if you desire we will bring samples to you

Carey

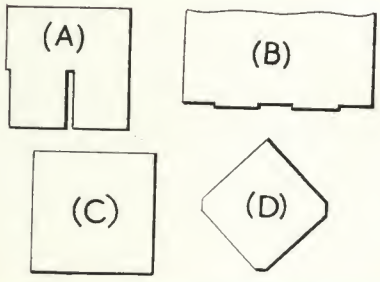
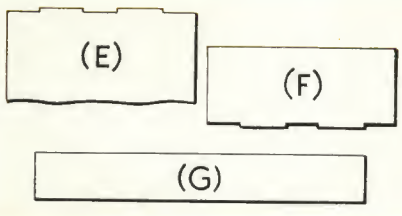
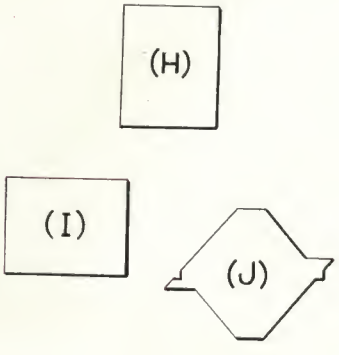
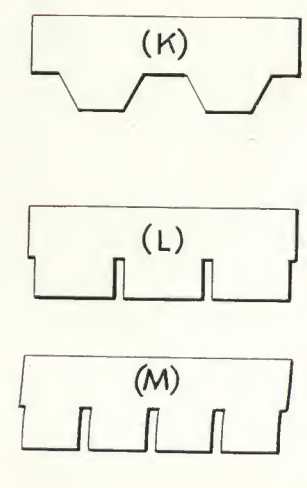
LOCAL DEALER SERVICE

Georgian Red
Careystone

Weathered Brown
Careystone

Tudor Black
Careystone

TABLE OF DESIGNS AND METHODS

GROUP	SHAPE	NAME	SIZES, IN.	EXPOSURE, IN.	HEADLAP, IN.	WEIGHT PER SQ., LB.	UND WRIT LAB
Careystone ASBESTOS-CEMENT SHINGLES		(A) Duplex Shakes No. 35	16 x16	7	9	465	Class
		(B) Scotch-American No. 20	12 x24	9x20	3	260	Class
		(C) Scotch No. 30	16x16x3/16	12x13	3	290	Class
		(D) French No. 70	16x16x5/32	13	3	260	Class
Careystone ASBESTOS-CEMENT SIDING		(E) Old Colony Duo Edge—No. 210	12 x24	10½x24	1½	180	
		(F) Duo "8"—No. 220	9½x24	8x24	1½	190	
		(G) Colonial Clapboards	¼x9x96	7	2	325	
ASPHALT INDIVIDUAL SHINGLES *Plain Back †Cork Back		(H) Asfaltslate	12 x16	5	6	325* 345†	Class "
			9 x12¾	4	4¾	253	Class "
		(I) Careylok (Standard)	12 x16	10	2	130*	Class "
		(I) Careylok (Extra Heavy)	12 x16	10	2	162*	Class "
		(J) Careylok (Hexagonal)	16 x16		2½	130* 140†	Class "
ASPHALT STRIP SHINGLES *Plain Back †Cork Back		(K) 2 Tab, Hexagonal	11⅓x36	4⅔	2	167* 177†	Class "
			12⅓x36	4⅔	3	186*	Class "
			14½x36	4⅔	5⅙	225*	Class "
		(L) 3 Tab, Square Butt	12 x36	5	2	210* 215†	Class "
			15 x36	5	5	270†	Class "
		(M) 4 Tab, Square Butt	10 x36 12½x36	4 4	2 4½	210* 266*	Class " Class "

ANSWERS TO OTHER ROOFING PROBLEMS

Roll Roofing—To meet the demand for good low-priced quickly applied roofings, Carey offers a complete line of ready-to-lay Roll Roofings—in various weights and finishes—in a price range to meet every need . . . from the smallest temporary shed to the more permanent building. . . .

Roll Roofings in colorful mineral surfaced finishes for use on garages and other buildings where appearance is important. . . .

Other types of Roll Roofings in black finish for jobs where protection is the primary consideration.

Carey Roll Roofings are packaged in rolls containing sufficient material to cover 100 square feet of roof surface, allowing for laps. Nails and cement are packed inside each roll.

BUILDING PAPERS AND FELTS—Carey Waterproof Building Paper keeps out dampness, grit, wind—assures a cleaner, more comfortable home. Available in various types and weights to meet practically every need in modern home construction.

Built-Up Roofs—For flat roofs where shingles are not practical, Carey Built-Up Roofs are recommended. If your home plan calls for flat roof construction, be sure to specify these time-tried Carey Built-Up Roofs.

As the name implies, these roofs are built up, layer on layer, to meet the requirements of each job. Your architect or builder will be glad to determine the correct specifications for your building.

For more than fifty years, Carey Built-Up Roofs have been protecting many of America's largest commercial buildings . . . evidence these products will serve you well.

those w

Carey

LOCAL DEALER SERVICE

Careystone

OLD COLONY DUO-EDGE No. 210

This is another double edge unit, made with thatch butt on one edge and wave line on the other. When laid with one edge exposed, it presents the distinctive broken lines of thatch butt shingles laid in random widths. By exposing the other edge, a very pleasing wave line is secured. A unique treatment may be achieved by using both the wave line and thatch butt exposures on the same building.

Careystone

DUO "8" SIDING

This is a double edge unit, made with thatch butt on one edge and a straight line on the other. May be laid with either edge continually exposed, or alternated. Affords almost unlimited opportunity for planning distinctive exterior wall treatment. Ten or more separate and unusual patterns may be developed by combining this unit with the wider Old Colony Siding.

In the manufacture of this siding, special care is given to the arrangement of the grain—to bring out the effect of random width, individual shingles.

re alert to Modern Developments in Home Building Materials say . . .

BEFORE YOU BUILD . . . CONSIDER

Careystone

ASBESTOS-CEMENT SIDING

WHEN you specify Careystone Siding, you protect your building with a material that is fireproof and wear-proof—impervious to moisture—as permanent and unburnable as stone itself.

Can you imagine a more desirable material for protecting the outside walls of *your* home?

Available in a variety of shingle styles and in the time-honored Colonial Clapboards, Careystone Siding is perfectly adapted to many popular types of architecture. It may be had in styles and colors to meet every architectural requirement or personal taste.

Careystone Siding in Duck's Back White—See for yourself this newest development in pure white. It is whiter than white paint and stays white even during a soaking rain. Protects your building like a duck's back keeps its downy under coat dry and warm.

Careystone Siding "pays its way" in beauty, permanent service and freedom from upkeep.

Consider These Advantages of

Careystone

ASBESTOS-CEMENT SIDING

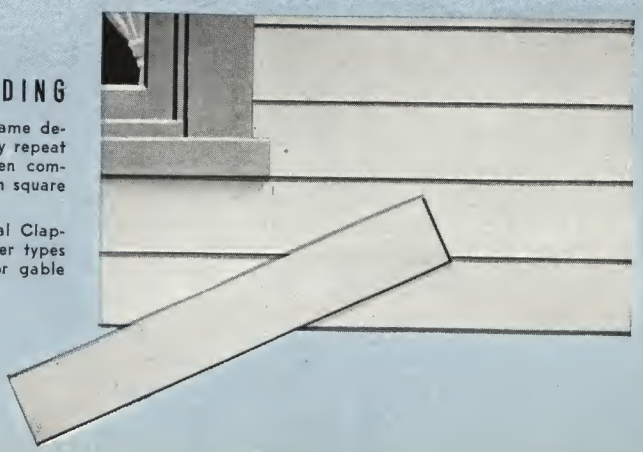
1. Low first cost
2. Distinctive, beautiful appearance
3. No Upkeep Expense
4. No Painting required
5. Fireproof and wear-proof
6. Makes the home warmer in winter
7. Cooler in summer
8. Will not rot or deteriorate
9. Will not curl
10. Termite Proof

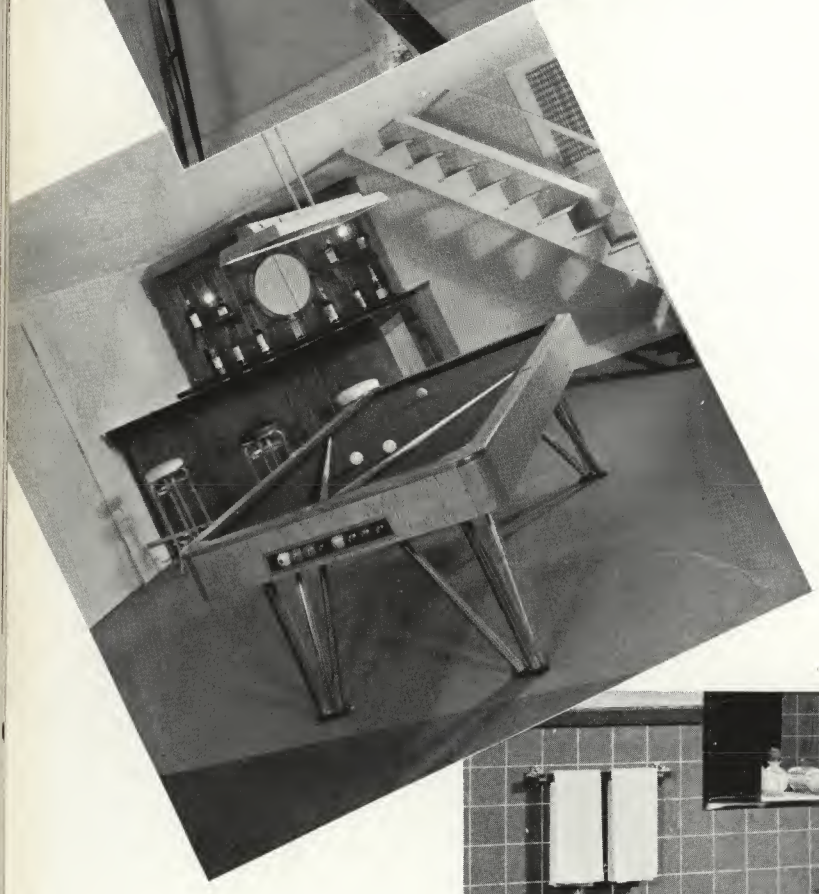
Careystone

COLONIAL CLAPBOARD SIDING

Readily adaptable to almost every type of frame design. Its outstanding merit is substantiated by repeat orders for a new housing project which, when completed, will use approximately one-half million square feet.

A pleasing contrast is achieved when Colonial Clapboard Siding is used in conjunction with other types of Careystone Siding Units, in upper story or gable end treatment.





Careystone

ASBESTOS-CEMENT WALLBOARD

Made of asbestos fibres and Portland Cement. Ideal for use on walls, ceilings, panels and partitions. Can be nailed (without drilling) direct to wood studs. Furnished in an attractive buff color which makes a neat finish, or may be painted or papered. Makes an excellent fire stop when used on basement ceiling. Available in $\frac{3}{16}$", $\frac{1}{4}$" and $\frac{3}{8}$" thicknesses and in standard size sheets 48"x48" and 48"x96".

CAREYSTONE SCORED ASBESTOS-CEMENT WALLBOARD

Is the same base material described above, except that each sheet is scored in 4"x4" squares to provide a tile effect. Widely used for lower sections of walls in kitchens, bathrooms, breakfast rooms. Makes a beautiful tile appearance at a great saving in labor and material cost. Furnished in maximum size sheets 48"x96".

CAREYSTONE FLAT ASBESTOS SHEATHING

A board made of asbestos and cement—fireproof and weather-proof—suitable for interior and exterior use. Becoming increasingly popular for use in place of stucco in dormers and other places in home construction. Furnished in the white, natural color of the materials from which it is made. The color is permanent and will not discolor upon exposure to the elements. May be drilled and sawed with ordinary tools. Available in any size up to and including 48"x96", in thicknesses from $\frac{1}{8}$" to 2", inclusive.

Typical installation of Careystone Scored Wallboard. Finished on the job by your painter.

DRY, HEALTHFUL, USEFUL BASEMENTS

CAREY DAMP-PROOFING AND WATERPROOFING

Basements not properly protected against the seepage of ground water become damp and unhealthy. To prevent this—to make sure your basement will be as dry and healthful as your living room, specify Carey Waterproofing Materials in your new home.

CAREY PERCOPROOF COATING

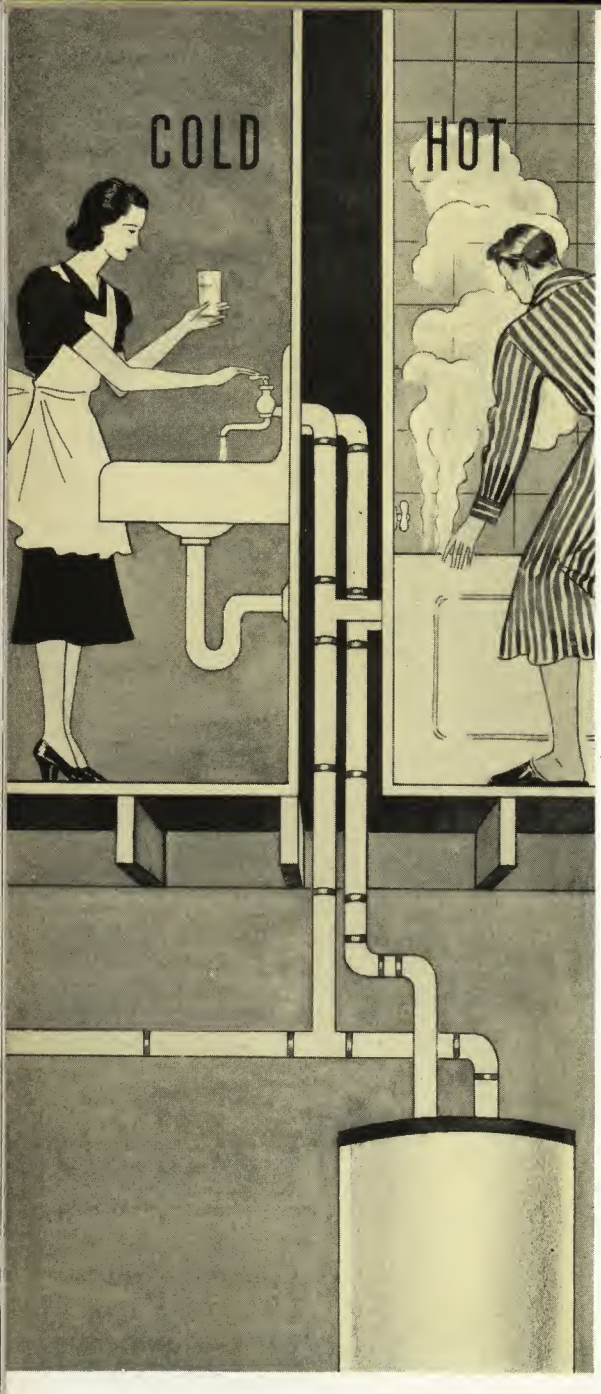
This compound, applied to the outside wall, penetrates the pores and seals out the ground water, assuring a dry basement. Percoproof comes in cans ready for use. Easily applied by unskilled labor. Must be applied to the outside of the wall only —preferably while the building is being erected.

CAREY PLASTIC WATERPROOFING COMPOUND

This is a fibrous black cement which is troweled onto the outside of the foundation walls, forming a tough and thick adhesive layer. Used where building is in low, heavy or soggy ground, where greater protection is needed than is afforded by the liquid Percoproof Coating. Applied to outside of basement wall only.

CAREY PERCOPROOF PLASTER BOND

When moisture soaks through from the outside of concrete, brick or hollow tile walls, it often causes ugly stains and cracks in the plaster, sometimes causes the plaster to fall. The use of Carey Percoproof Plaster Bond prevents the penetration of moisture. Applied directly to the wall, it penetrates the pores, sealing them against dampness. Percoproof Plaster Bond is of a thin, paint-like consistency and comes ready to apply with a brush, without the addition of solvents. It leaves the wall in its original roughness so that the plaster bonds firmly and permanently.



Carey INSULATIONS

UNCOVERED steam or hot water pipes act as radiators. They waste heat in basement, hollow walls and other places where heat is not needed.

USE CAREYCEL FOR YOUR HEATING SYSTEM

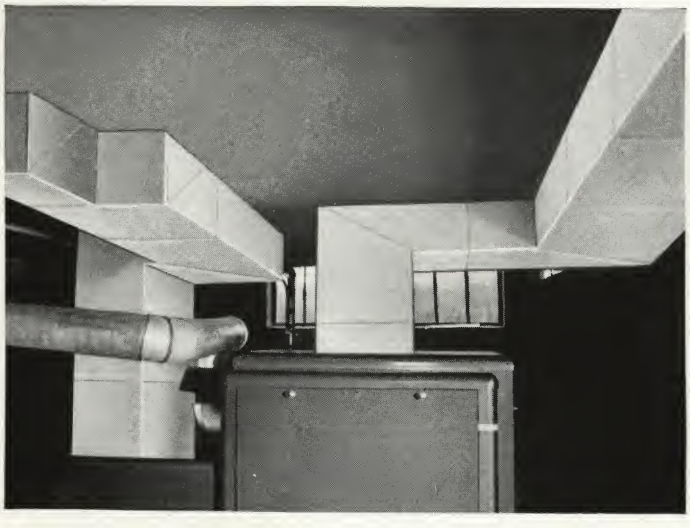
Careycel Asbestos Insulation is an exclusive, patented Carey Product, developed especially for hot water and steam heating systems. Impartial tests, made by a leading testing laboratory, demonstrated a 30% reduction in heat loss over the air cell type of covering ordinarily used. Put Careycel over all pipes leading from boiler to radiator; cover boiler with Careycel Asbestos Blocks. The savings in fuel will pay for the insulation and continue to pay you dividends in fuel saved year after year.

A CAREY TANK JACKET KEEPS HOT WATER HOT

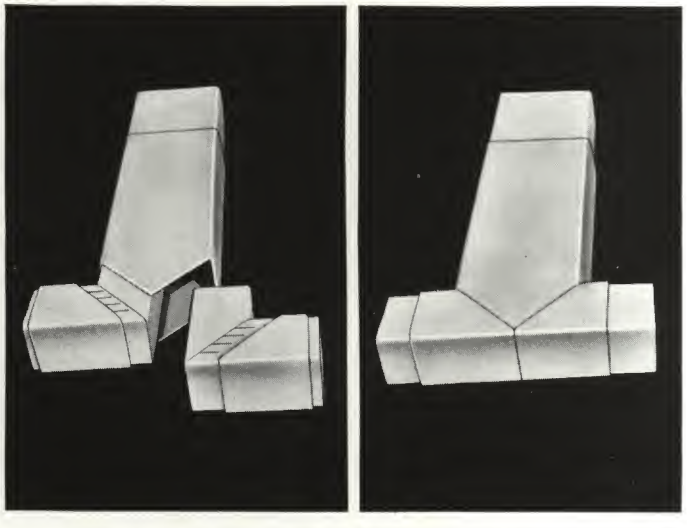
Cover your hot water heater with a Carey Tank Jacket. The water will heat quicker and stay hot longer. The pipes leading from water heater to kitchen and bathroom allow the hot water to cool. Cover these pipes with Careycel Insulation and keep the water hot, right up to the faucets. This will save you money on water and gas bills; give you more hot water when you want it.

CAREY PERFECTO PIPE COVERING FOR COLD WATER LINES

Cold water lines usually run parallel to hot water lines through the walls to bathroom and kitchen. These pipes are warmed by the adjacent hot water pipes and it is usually necessary to run the cold water for some time to get it cool enough to use. Cover your cold water lines with Carey Perfecto Covering—have cool water right up to the faucets —reduce your water bills.



Note the neat finished appearance of this typical residential installation of Careyduct.



Illustrating simplified method of constructing fittings from standard Careyduct parts.

FOR THE HOME

ELIMINATE NOISY WASTE PIPES

You know how objectionable it is—and sometimes embarrassing—to hear waste water gurgling through the soil pipes between the partitions. This is easily overcome by insulating the soil pipes with Carey Perfecto Woolfelt Pipe Covering. Make Carey Pipe Covering a part of your heating and plumbing specifications. The work must be done before walls are closed and plastered.

ELIMINATE SWEATING PIPES

Like many home owners you probably wish to make use of your basement as a recreation room, work shop, or laundry. Be sure to cover cold water lines with Carey Perfecto, the non-sweat insulation. It will eliminate dripping from pipes.

SPECIFY CAREYDUCT FOR YOUR AIR CONDITIONING SYSTEM

If air conditioning is included in your new home, be sure to specify Careyduct—the modern asbestos insulated duct. Careyduct is fireproof; permanent; will not rust or decay; hushes fan noises; insures uniform high efficiency in the whole duct system. Size for size, Careyduct is much cheaper than insulated metal. Easily erected; easily decorated.

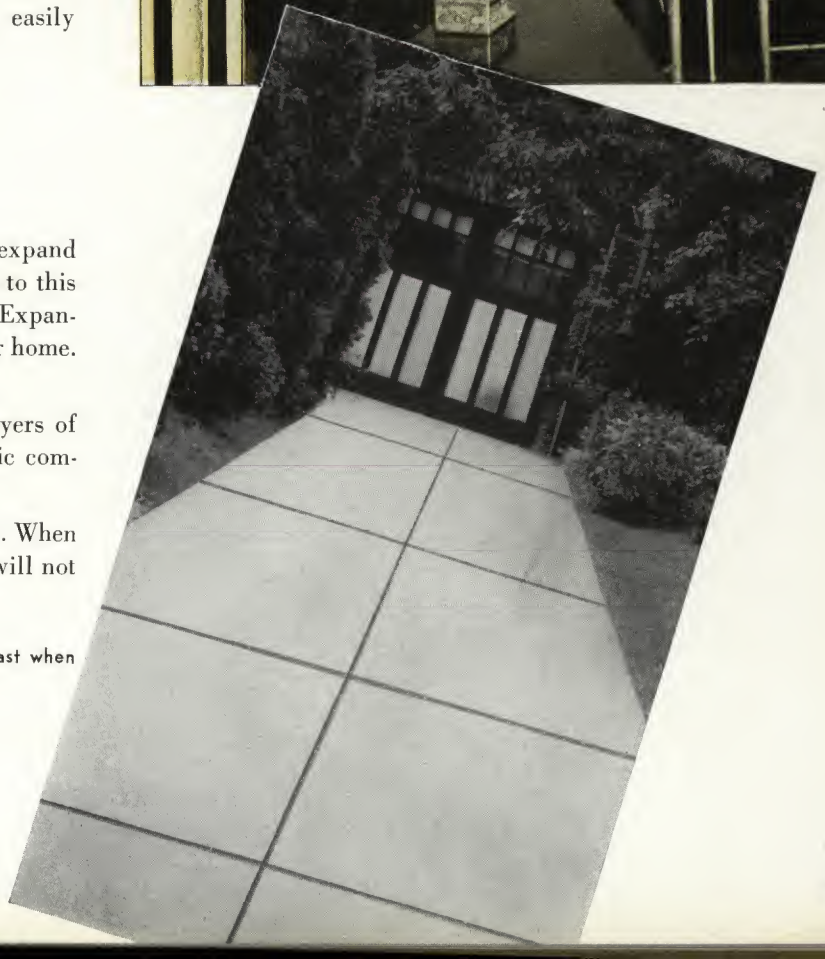
★

CAREY EXPANSION JOINT PREVENTS UNSIGHTLY CRACKS

Variations in temperature cause concrete work to expand and contract. To prevent breakage and cracks due to this expansion and contraction, specify Carey Elastite Expansion Joint to be used in all concrete work about your home. Carey Expansion Joint is available in two types:

A. Standard Asphalt Joint consisting of two layers of felt between which is interposed an asphaltic composition.

B. A sponge rubber type of joint that is resilient. When compressed by the expansion of concrete, it will not extrude.



Unsightly cracks in concrete driveways are a thing of the past when Carey Elastite Expansion Joint is specified.

Rocktex Loose Wool installed in walls of new construction

Rocktex Granulated Wool being installed in open attic

Rocktex Bats being installed in open attic

Rocktex Bats being installed in walls of new construction

Rocktex being blown over top floor ceiling

Rocktex being blown in side walls of old home

Carey ROCKTEX

HOME INSULATION

Keeps Heat Inside in Winter
Keeps Heat Outside in Summer
Saves up to 30% on Fuel Bills
No Upkeep Cost

CAREY ROCKTEX is the modern Rock Wool Home Insulation. A 4-inch thick blanket of Rocktex installed in the walls and ceiling of your home is as efficient in stopping the flow of heat as a solid brick wall about five feet thick.

Fuel savings are definite because Rocktex stops the loss of heat that costs you so much to provide. Rocktex also effects important savings in reducing the size of the heating unit required to heat an uninsulated building. The saving in cost of the heating plant has, in many cases, paid for the insulation.

HOME INSULATION . . . A MO

Since Carey Rocktex reduces fuel consumption up to 30% or more, it is an important item in household economy. In many cases, it will go far toward paying the taxes on the property.

Carey Rocktex Insulation eliminates drafty rooms, cold corners and cold floors in winter. By maintaining even temperatures, it reduces rapidity of air change in the home, thereby diminishes evaporation of moisture in the air and helps to conserve the proper humidity so essential to health.

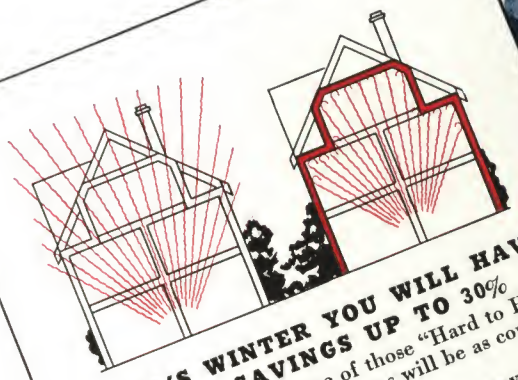
Carey Rocktex gives you increased fire protection. You don't have to push your furnace so hard in cold weather; thus you eliminate one of the greatest fire hazards. Rocktex eliminates lath marks and unsightly dark streaks on ceiling and walls. You don't have to redecorate so often, another important saving. Rocktex also increases property value. A Rocktex Insulated home is more livable—rents to better advantage . . . sells at a substantially better price.

Carey Rocktex is manufactured from mineral materials; therefore is permanent. It is fireproof . . . water repellant . . . odorless . . . highly efficient . . . light in weight . . . will not rot or decay . . . outlasts the building.

Carey Rocktex is available in forms for easy application in any type of building, old or new. Insulate with Carey Rocktex—it returns to you in savings *more than it costs.*

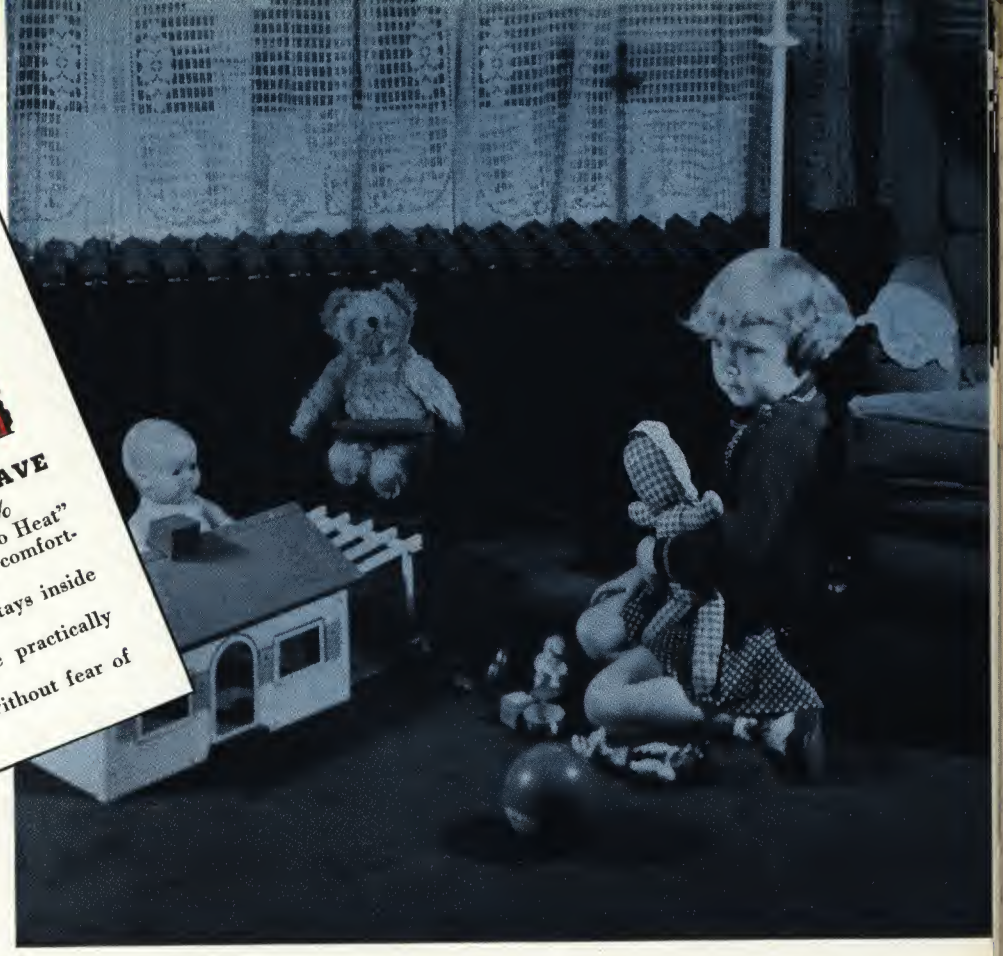
REGARDLESS OF WEATHER CONDITIONS INSURE YOURSELF OF COMFORT

NO MORE COLD, DRAFTY FLOORS.

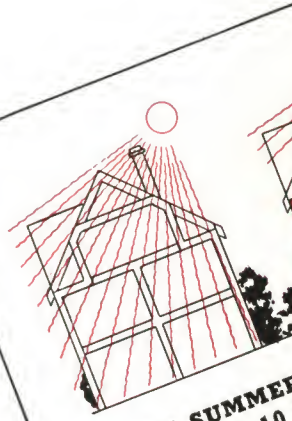


IF IT'S WINTER YOU WILL HAVE FUEL SAVINGS UP TO 30%

You will have no more of those "Hard to Heat" rooms. Your top floor rooms will be as comfortable as your lower floor rooms. Heat that ordinarily would be lost stays inside where it belongs. Floor and stairway drafts will be practically eliminated. Children can play on the floor without fear of usual colds.



ERN NECESSITY FOR COMFORT AND ECONOMY



IF IT'S SUMMER YOUR HOME WILL BE UP TO 10 DEGREES COOLER

Sleeping rooms which are unbearably hot will be comfortable. You will be assured a good night's sleep even in the hottest weather. Your top floor will be within two to three degrees of the lower floor. Returning home after a hot day in the office or shopping you will find your home refreshingly cool.

NO MORE BAKE-OVEN BEDROOMS.

MIAMI *Glorifies* THE AMERICAN BATHROOM

OF ALL the fixtures and appointments that go into the Modern Bathroom, none play so important a role in providing beauty, distinctive charm, as well as utility, as the Cabinets and Accessories.

Bearing this in mind, Miami Engineers and Designers have spent their time and talents creating a line of Bathroom Cabinets that has become popularly and aptly known as "America's Finest."

Miami Cabinets are backed by more than seventeen years manufacturing experience. They are ruggedly constructed of finest quality, heavy materials and carefully finished to retain their beauty and brilliance indefinitely and to render lifetime service under hard use. Electric lighted cabinets are wired at the factory.

The Complete Line includes a wide variety of exclusive, distinctive models . . . ranging from luxurious cabinets and ensembles for the stately mansion to simple cabinets for the modest cottage. All are Miami quality throughout.

A few models are shown here. Should you desire more detailed information, or if you have a bathroom cabinet problem to be solved, write to us.

Carey

LOCAL DEALER SERVICE

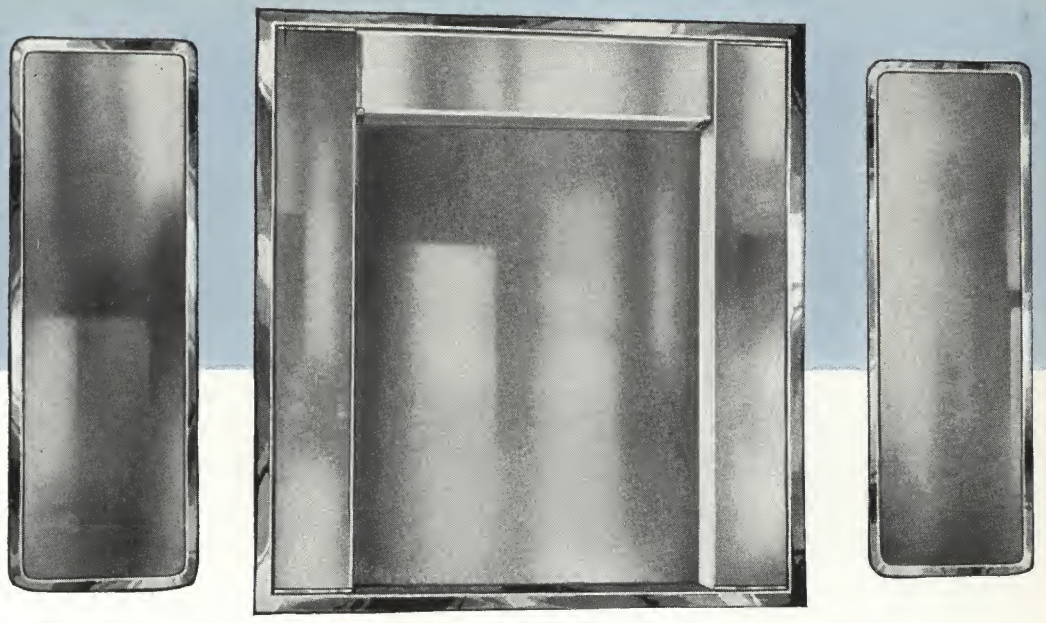
The IMPERIAL—Here is MIAMI'S latest development in Modern Bathroom Cabinets—an exclusive, distinctive Deluxe Model for those of discriminating taste. The frame around the entire cabinet is *brass, chromium plated.* Spacious side cabinets, one on each side of the large recessed mirror, have chromium framed mirror doors swung on *brass, chromium* plated piano-type hinges. Cabinets are finished inside in white *Crystal Snow* and are equipped with three glass shelves, stainless steel shelf supports and tooth brush holders. The shelf under the center mirror is white *vitrolite.*

The inside walls projecting outward from the center mirror are faced with mirrors that match the large center mirror. Two light bulbs concealed behind the opal flash-glass panel at top of the center mirror provide perfect reflected light for shaving or dressing the hair. Regular mirrors are "A" quality silver, *copper backed,* guaranteed for five years against silver spoilage. The new rose (or flesh) colored mirrors may be had if required.

The overall size is 32" x 32⅜"; the wall opening, 31⅛" x 31½" x 4⅜"; the center mirror measures 18" x 27½"; the two side mirrors, 5 9/16" x 30 1/16"

MIAMI CABINET DIVISION • THE PHILIP CAREY COMPANY • MIDDLETOWN, OHIO

LOUIS XIV
MIRROR-CABINET ENSEMBLE



NEW, DIFFERENT AND DISTINCIIVE

The *Louis XIV* unit is not merely a bathroom cabinet, but an ensemble of beautiful bathroom furniture. The center unit consists of a large recessed mirror flanked by narrow full length mirror panels that extend forward. There is no cabinet behind it. The frame around the entire center unit is *brass, chromium plated.* The mirrors are genuine "A" quality plate glass, *copper backed,* guaranteed for five years against silver spoilage. The center mirror may be either the regular "A" quality silver mirror or the new rose (flesh) color. The small side mirror panels on the center unit are optional as to color—either rose (flesh), blue, gun metal, green or regular silver.

MIAMI LOUIS XIV MIRROR-CABINET ENSEMBLE

The lights, concealed behind the white ground glass panel at the top of the center unit and behind the two narrow side mirrors, are arranged so as to reflect proper illumination to the center of the mirror. Light is also reflected out into the room through the top front panel.

The two side cabinets are finished inside in Miami white *Crystal Snow,* guaranteed not to retain a stain nor to discolor with age. Three glass shelves are furnished with each cabinet. The cabinet doors, hung on chromium plated brass piano type hinges, are fitted with mirrors set in brass, chromium plated frames that match the frame of the center unit. These mirrors are the new rose (flesh) color; regular silver is optional. The wall opening for the center unit is 28½″x30¾″x4⅜″; the overall size is 29⅛″x31⅜″; mirror, 20″x26″. For the side cabinets the wall opening is 24½″x8¼″x4¼″; the overall size, 10¼″x28¼″; mirrors, 10″x28″.

MIAMI DUBARRY MIRROR-CABINET ENSEMBLE

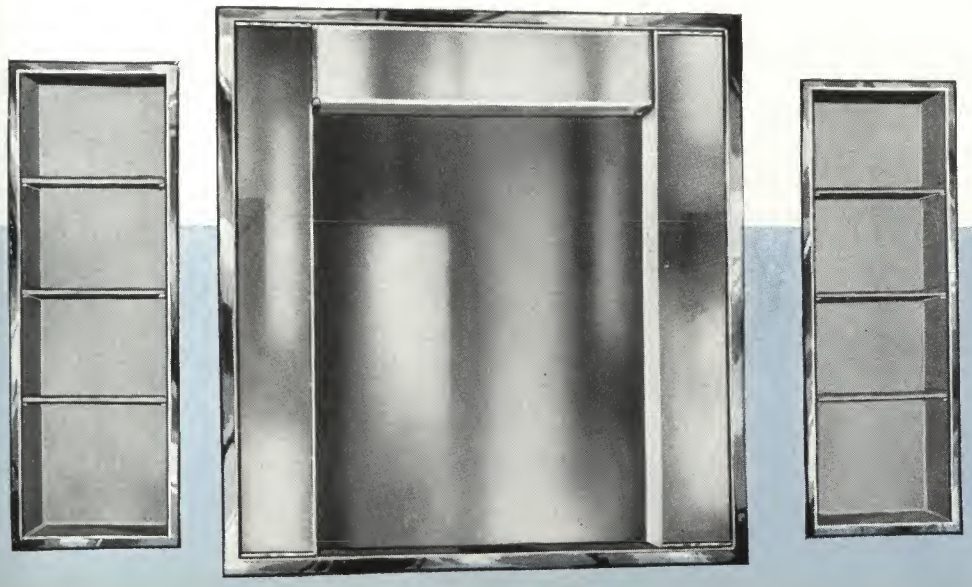
Lifetime beauty today—always—colorful, brilliant, modern—The *DuBarry* brings all of this to the bathroom. The deep lustre of Chromium combined with colored mirrors or regular silver mirrors provides opportunities to create truly striking effects or to harmonize this complete unit with the general color scheme of the bathroom.

The center unit—a large recessed mirror flanked with narrow full length mirror panels—is set in a brass, chromium plated frame. The concealed light fixtures are located behind ground glass panels at the top center and behind the narrow mirrors on each side of the large center mirror. Perfect illumination for the entire bathroom and for shaving and dressing the hair is provided.

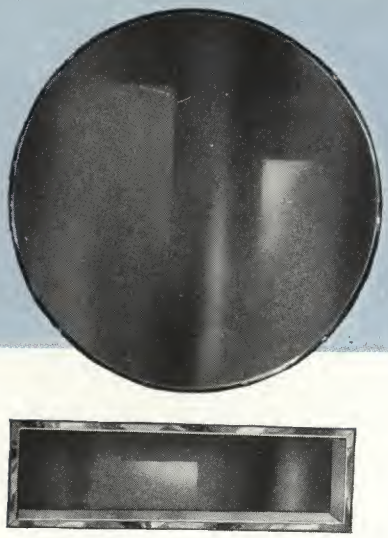
The color of the large center mirror is optional, either the new rose (flesh) or regular silver. The small narrow side mirrors may be had in blue, green, gun metal, rose (flesh) or regular silver.

There are no doors on the side cabinets. Cabinet frames are brass, chromium plated. These cabinets are lined on the inside with mirrors, either blue, green, gun metal, rose (flesh) or regular silver. Three glass shelves to match the mirrors are furnished with each cabinet.

The wall opening for the center unit is 28½″x30¾″x4⅜″; overall size, 29⅛″x 31⅜″; mirror 20″x26″. For the side cabinets the wall opening is 25⅜″x9$\frac{3}{16}$″x 4⅜″; overall size, 9$\frac{13}{16}$″x26″.



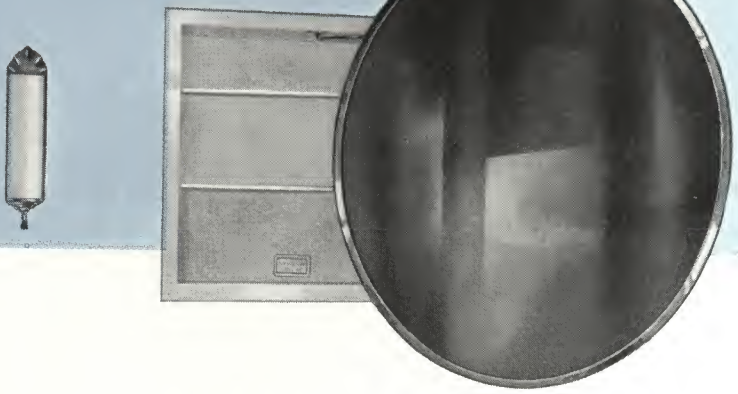
DUBARRY
MIRROR-CABINET ENSEMBLE



The POMPADOUR

The *Pompadour*, an ideal unit for guest bathroom, the downstairs lavatory or the dressing room, consists of a 26-inch circular mirror and glass-lined recessed shelf. There is no cabinet behind the circular mirror. The steel back on which the mirror is mounted is fitted for concealed hanging on the wall. The new rose (flesh) color mirror is available at slight additional cost.

The frame around the lower recessed shelf is brass, *chromium plated.* The shelf itself is lined with mirrors. Colors available are blue, green, gun metal, rose (flesh) or regular silver. The wall opening for the lower shelf is 23⅜″x7⅜″x4⅜″.

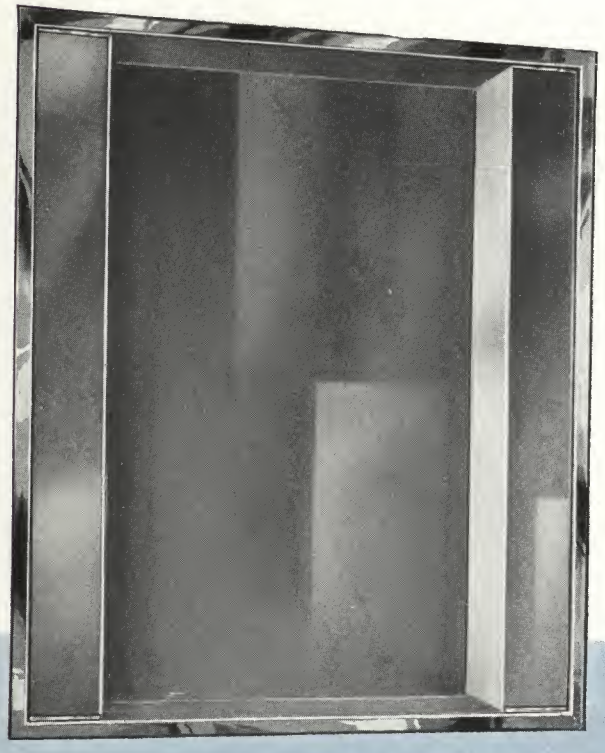


The DUCHESS—The MODERNE

These two popular cabinets are identical, except that the *Duchess* has the mirror set in a beautiful circular frame of *brass, chromium* plated. styled to match today's modern chromium plated bathroom fixtures and accessories.

When installed in the wall, the *Moderne* and the *Duchess* look like beautiful circular mirrors hung on the wall. The illustration of the Pompadour at the left shows how both models appear when the door is closed. The ingenious hinge on which the door is swung permits it to be pulled outward over the lavatory so that when opened the mirror is only a few inches from the face—an ideal arrangement for shaving or dressing the hair.

The cabinet box of both the Duchess and Moderne is constructed of heavy-gauge ARMCO steel. The body and door backs are finished in *Miami Crystal Snow,* guaranteed not to retain a stain or to discolor with age. Equipped with two adjustable plate glass shelves, and Miami chromium plated razor blade drop. Mirror size is 26″ circle; wall opening, 16½″x16½″x4¼″.

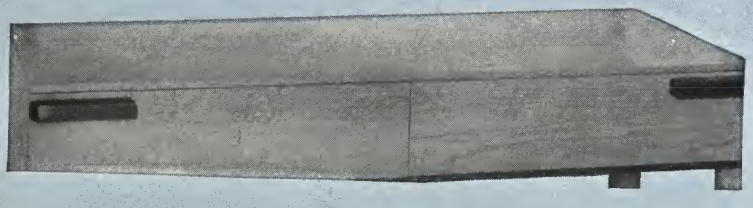


The POWDER PUFF

The custom-built *Powder Puff* unit, illustrated on the left, adds the final touch to the modern powder or dressing room. The outside frame is *brass* finished in lustrous *chromium plate.* The large center mirror is genuine "A" quality plate glass in either the new rose (flesh) color or regular silver, as desired.

The small mirrors on either side of the large center mirror are optional as to color—either rose (flesh), gun metal, blue, green or regular silver. The recessed lower shelf may also be had in the same colors as the small side mirrors or in regular silver.

The light brackets are concealed behind the two small side mirrors and are so located that the light is reflected onto the large center mirror through ground glass panels. The overall size is 35″x41¼″; wall opening, 34⅜″x40⅝″x4⅜″.



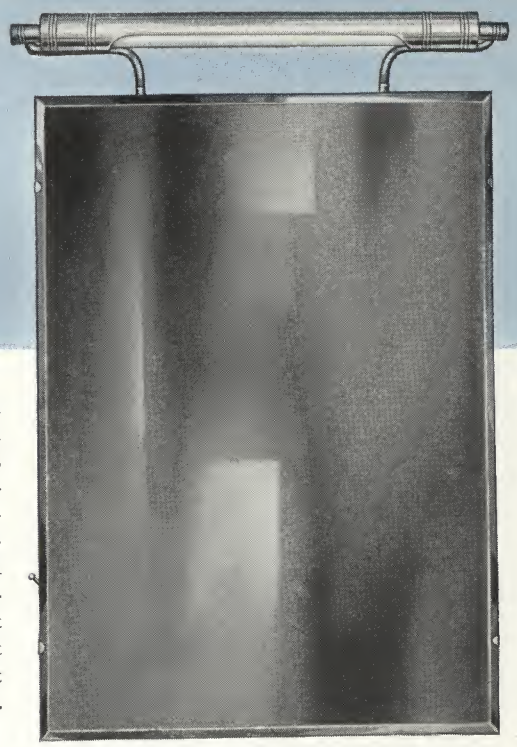
FOR the MODERN POWDER ROOM

In the home of today, the Powder Room is almost as essential as was the bathroom in the house of the late nineties. Equipped with the beautiful Miami "Powder Puff," it attains the utmost in completeness and distinctiveness.

TUBULAR LIGHT BRACKETS for MIAMI CAREY CABINETS

MIAMI CABINET FITTED WITH LIGHT BRACKETS No. 3.

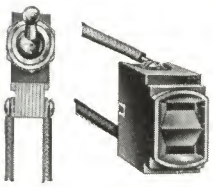
Miami-Carey Cabinets fitted with new and distinctive chromium plated, tubular light brackets bring new beauty to your bathroom lighting at an attractive saving in cost. Tubular Light Brackets No. 3 and 4 are exclusive with Miami. The brackets are correctly located to concentrate light at the point where it is most needed and yet provide sufficient illumination for entire bathroom.



MIAMI CABINET WITH OVERHEAD LIGHT BRACKET No. 4.

TUBULAR LIGHT BRACKETS No. 3

The No. 3 Tubular Light Brackets are designed to take a T-8 frosted bulb, either 40 or 60-watt. This bulb is available at all electric shops. There is no glass shield over the bulb. The frosted light bulb itself serves the purpose. Both No. 3 and No. 4 Tubular Light Brackets have chromium plated shields around the light bulbs, adjustable in all arcs of a 180° angle.



SWITCH AND OUTLET

All cabinets ordered with light brackets attached are fitted with switch and electric convenience outlet. They are fitted on the return flanges of the cabinet.

OVERHEAD TUBULAR LIGHT BRACKET No. 4

The above photograph illustrates a square top cabinet fitted with a single Tubular Light Bracket. This type of installation is recommended for the small bathroom, for the downstairs lavatory and for the low cost home where perfect illumination of the bathroom is as essential as in the more costly home.

TOWEL SUPPLY and UTILITY CABINETS

MODEL 510-A

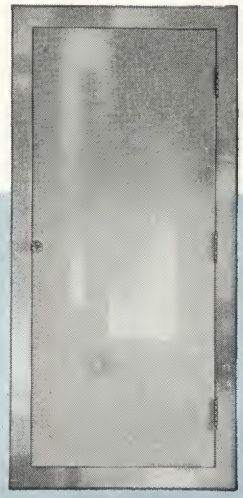
MODEL 510-A

Designed for the luxurious bathroom. The "A" quality mirror, set in a beautiful *chromium plated* frame, is *copper backed*, guaranteed for five years against silver spoilage. The heavy, air cushioned door is swung on a *brass, chromium plated* piano hinge. The cabinet and door back are finished in Miami *Crystal Snow*, guaranteed not to retain a stain nor to discolor with age. Five glass shelves are furnished. Mirrored door also serves as a full-length bathroom mirror. The wall opening is 17¾"x57¾"x8"; mirror, 20"x60"; overall, 20¼"x60¼"x8⅝".

★

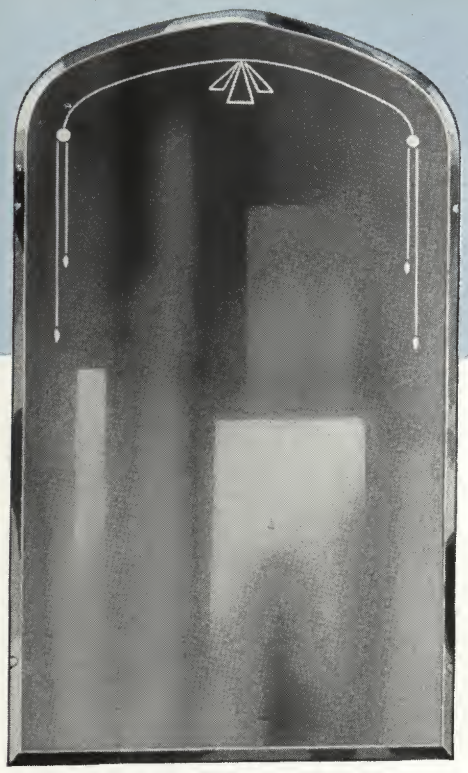
MODEL 500

This cabinet, smaller than the No. 510-A, is designed and constructed for the less pretentious bathroom where extra storage space is also required. The entire cabinet, including the door, is constructed of ARMCO selected steel. Five glass shelves are furnished. The door is swung on three *brass, chromium plated* hinges. There is no mirror in the door. The cabinet is finished in Carey first quality baked enamel. White is the regular finish. At additional cost the unit may be had in any color desired. The wall opening required is 14¾"x34½"x6"; the overall size is 18"x37¾"x6¾".



MODEL 500

CABINETS
with
FULL-MIRROR DOOR



Nos. 610, 620

GOTHIC TOP MODELS

The classic beauty of these two Carey Cabinets with full mirror door is now available for the modest home and apartment at new all-time low prices. We are able to offer these two new and different Gothic models at such prices only because of improved manufacturing methods.

Nos. 2010, 2020

This model has no frame around the mirror. The mirror is hung on a steel door of the hollow metal type and covers the entire cabinet so that when the cabinet is set in place, the appearance is that of a mirror hung on the face of the wall. The arched top suggests this cabinet for the bathroom where the design is arched or curved.
To those who prefer the all-glass front cabinet with no knob, hinges or ugly screw heads to mar the face of the mirror, we recommend this Gothic model.

SPECIFICATIONS

	No. 610	No. 620
Overall	16″x26″	18″x28″
Mirror	16″x26″	18″x28″
Wall Opening	13¾″x19¾″x3½″	15¾″x21¾″x3½″

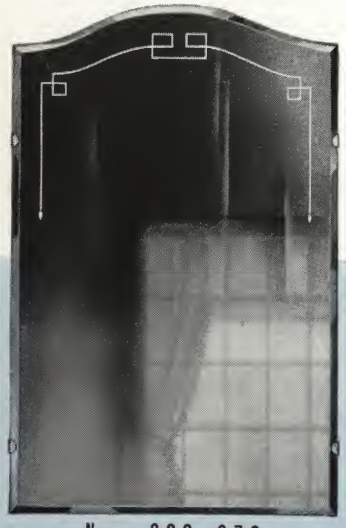
The Gothic Top Model shown above has a *stainless steel* frame around the mirror, absolutely non-rusting and may be kept clean and highly polished just by rubbing with a clean, dry cloth. *Stainless steel* is the perfect match for chromium plated bathroom fixtures; hence, this Gothic model is particularly recommended for bathrooms fitted with chromium plated fixtures where the budget does not permit the purchase of higher priced chromium plated models.

SPECIFICATIONS

	No. 2010	No. 2020
Overall	16⅝″x26⅝″	18⅝″x28⅝″
Mirror	16″x26″	18″x28″
Wall Opening	13¾″x19¾″x3½″	15¾″x21¾″x3½″

THE ARISTOCRATS

The Aristocrat model illustrated below is designed for the home where price must be considered, but where quality is also taken into consideration. It was created by Carey engineers to embody both beauty of design and sturdiness of construction—at a moderate price. When the Aristocrat is set on the wall, it resembles an unusually handsome mirror. There is no knob, hardware or portion of the body visible.



Nos. 660, 670

SPECIFICATIONS

No. 660

Mirror ..... 16″x24″
Wall Opening ... 13¾″x19¾″x3½″

No. 670

Mirror ..... 18″x30″
Wall Opening ... 15¾″x21¾″x3½″

MASTER MODELS

The Master models are suggested for the bathroom where straight lines are required. The one-piece *brass, chromium plated* frame eliminates the necessity of ugly corner clips commonly used to cover up open joints. The cabinet body and door back are finished in the famous Miami *Crystal Snow*, noted for durability.

SPECIFICATIONS

No. 1100

Overall ..... 16¼″x22¼″
Mirror ..... 16″x22″
Wall Opening .... 13¾″x19¾″x4¼″

No. 1150

Overall ..... 18¼″x24¼″
Mirror ..... 18″x24″
Wall Opening .... 15¾″x21¾″x4¼″

No. 1175

Overall ..... 20¼″x28¼″
Mirror ..... 20″x28″
Wall Opening .... 17¾″x25¾″x4¼″

Return Flange, ¼″

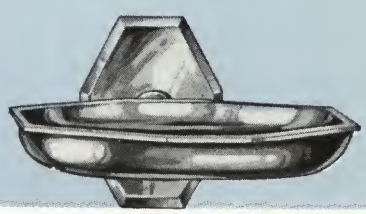
Nos. 1100, 1150, 1175

EQUIPMENT

Regular equipment includes three adjustable glass shelves, used razor blade drop, tooth brush racks.

CHROMIUM BATHROOM ACCESSORIES

by MIAMI



No. 5005—Soap Dish

BRILLIANTLY BEAUTIFUL

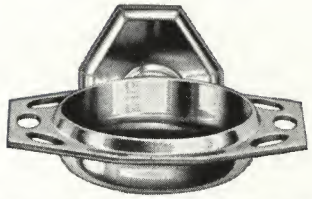
The line of MIAMI Chromium Lifetime Bathroom Accessories was developed to meet the need of those who wanted a product that was thoroughly modern . . . that could be bought at popular prices . . . that could be inexpensively installed in practically any bathroom.

MIAMI Chromium Bathroom Accessories are built to resist long wear and hard use. Over a forged, brass base, a thick coating of nickel is applied and then a covering of hard chromium. This method of manufacture assures a product that will give utmost satisfaction and retain its original brilliance.

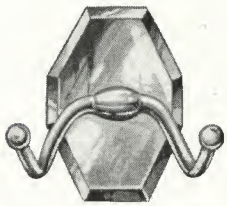
Projection type accessories, a few of which are illustrated on the right, are tightly secured with a new type of key plug. They are furnished with either "L" lug type brackets for installing the fixture permanently into the wall; or with "S" screw-on type brackets that fasten to practically any surface. The screws are concealed by the front plate of the bracket.

The recessed accessories shown at the bottom of this page are provided with larger and wider flanges which eliminate open joints, fit perfectly and give a more finished appearance. When installed, they become a part of the wall itself.

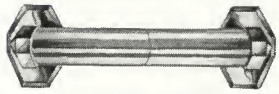
MIAMI "Time Saver" Recessed Accessories are the same in appearance as the Miami Recessed Accessories. Although they are smaller, they are equal in inside area to the average 6″ x 6″ china accessory.



No. 5008—Tumbler and Tooth-Brush Holder



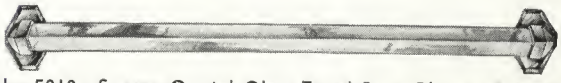
No. 5011—Double Robe Hook



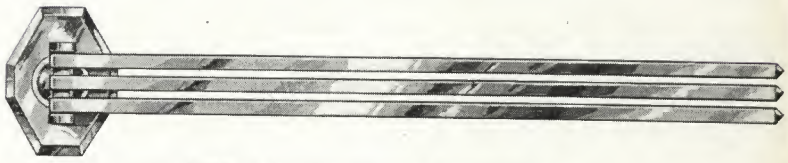
No. 5012—Paper Holder with Chromium Roller

No. 5001—Octagonal Chromium Plated Towel Bar—Chrome Brackets

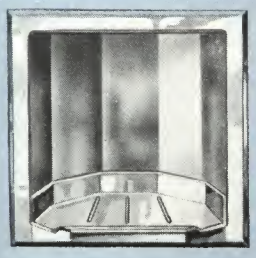
No. 5014—Crystal Glass Shelf



No. 5018—Square Crystal Glass Towel Bar—Chrome Brackets

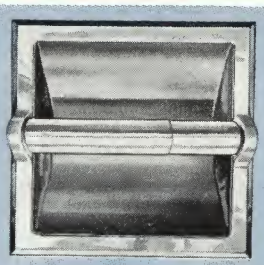


No. 5044—3-Arm Swing Towel Rack, 12" Arms

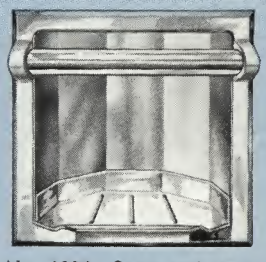


No. 6000—Soap Holder with Glass Tray

No. 6001—Tumbler Holder



Paper Holder
No. 6002—Chrome Roller
No. 6003—Wood Roller



No. 6004—Soap and Grab Bar with Glass Tray

Authorized Dealer

Carey PRODUCTS

"Dependable Building Materials"

Carey

LOCAL DEALER SERVICE

If you are not acquainted with a Carey dealer in your community write to the Carey branch nearest to you. You will immediately be placed in contact with your local Carey Dealer who is eager to serve you.

THE PHILIP CAREY COMPANY

GENERAL OFFICES

LOCKLAND, CINCINNATI, OHIO, U. S. A.

Atlanta, Ga.	The Philip Carey Company	666 Greenwood Avenue, N.E.
Baltimore, Md.	The Philip Carey Company	1400 Moreland Avenue
Boston, Mass.	The Philip Carey Company	267 Medford St., Charlestown Dist.
Buffalo, N. Y.	The Philip Carey Company, Inc.	1174 Niagara Street
Charlotte, N. C.	The Philip Carey Company	131 Brevard Court
Chattanooga, Tenn.	The Philip Carey Company	212 Volunteer State Life Building
Chicago, Ill.	The Philip Carey Company	4512-18 W. Fillmore Street
Cincinnati, Ohio	The Philip Carey Company (Cincinnati Sales Office)	408 Commercial Square
Cleveland, Ohio	The Carey Company	5906-5916 Euclid Avenue
Columbus, Ohio	The Philip Carey Company	100 W. Spring Street
Dallas, Texas	The Philip Carey Company	809 Thomas Building
Dayton, Ohio	The Philip Carey Company	Weakley Street at B. & O. R. R.
Detroit, Mich.	The Carey Company	6197 Hamilton Avenue
Indianapolis, Ind.	The Philip Carey Company	1111 E. 19th Street
Kansas City, Mo.	The Philip Carey Company	2028 Grand Avenue
Los Angeles, Calif.	The Philip Carey Company	337 S. Anderson Street
Louisville, Ky.	The Philip Carey Company, Inc.	1032-1044 South Eighth Street
Minneapolis, Minn.	The Philip Carey Company	112 Lumber Exchange
New York, N. Y.	The Philip Carey Company, Inc.	Lincoln Building, 60 E. 42nd Street
Norfolk, Va.	The Philip Carey Company	23rd and Granby Streets
Philadelphia, Pa.	The Philip Carey Company	24th and Sedgley Avenue
Pittsburgh, Pa.	The Philip Carey Company	Corliss Station
St. Louis, Mo.	The Philip Carey Company	4165 Duncan Avenue
Seattle, Wash.	The Philip Carey Company	820 Fairview Place
Wheeling, W. Va.	The Philip Carey Company	Chapline at 18th Street

PRINTED IN U. S. A.

FORM 4476

THE SEAL OF QUALITY — Carey — EST. 1873 — DEPENDABLE PRODUCTS SINCE 1873

BUILD BETTER FOR LESS MONEY WITH

CELOTEX

BUILDING PRODUCTS

WHAT IS CELOTEX?

The word Celotex is a trade mark, registered in the United States Patent Office, and used to identify a large group of building products marketed by The Celotex Corporation through your local Celotex Dealer. Among the products described in this book are:

CELOTEX VAPOR-SEAL INSULATING SHEATHING . . . . . Page 7

Used in place of ordinary sheathing, this material provides structural strength, efficient insulation, and an effective vapor seal at one cost.

CELOTEX VAPOR-SEAL AND STANDARD INSULATING LATH . Page 9

Used in place of other lath, these materials provide an excellent plaster base, efficient insulation, and a definite sound-deadening effect.

ANCHOR GYPSUM LATH AND CELOTEX ANCHOR PLASTER . Page 11

Made to conform to internationally famous Celotex quality standards, these products meet architects' and contractors' most exacting demands.

CELOTEX INSULATING INTERIOR FINISH . . . . . Page 12

These materials offer the modern way to accomplish interior decoration, insulation, and quiet at a single cost.

WHITE ROCK WALL BOARD . . . . . Page 22

This fireproof gypsum wall board is ideal for attic or basement recreation rooms.

CELOTEX HARDBOARD TILE . . . . . Page 23

Modern kitchens and bathrooms call for the smooth, easy-to-clean beauty of Celotex Hardboard Tile.

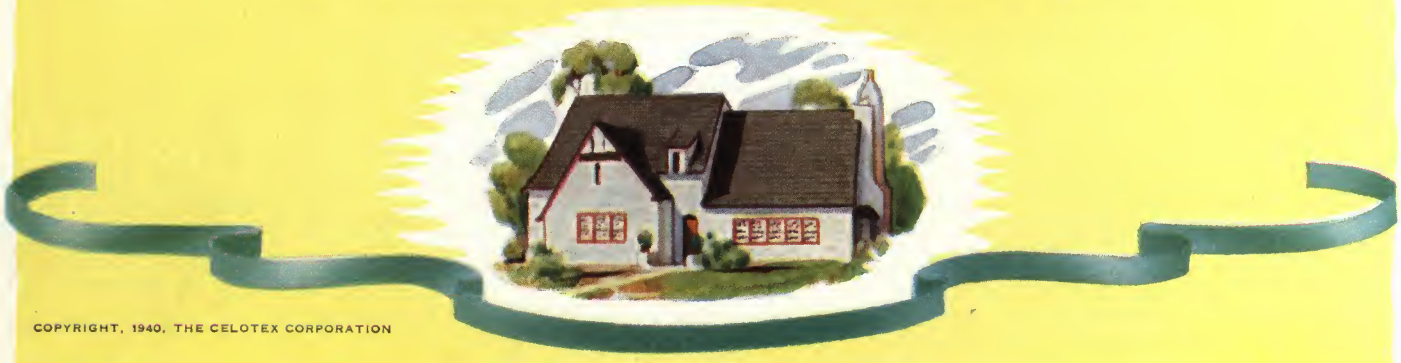
CELOTEX ROCK WOOL BATTS . . . . . Page 24

CELOTEX TRAFFIC TOP . . . . . Page 24

CELOTEX TRIPLE SEALED ROOFING PRODUCTS . . . . . Page 25

A complete modern line of highest quality asphalt shingles, siding, and roll roofing manufactured by a special process which insures extra years of service at no extra cost.

In certain territories Gypsum lath, sheathing, and wall board are sold by The Celotex Corporation, as selling agent and not as principal.



COPYRIGHT, 1940, THE CELOTEX CORPORATION

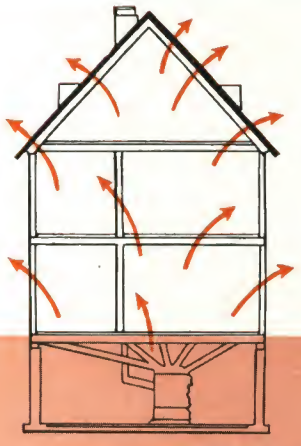
OF COURSE YOU'RE GOING TO INSULATE...

AN uninsulated house is an expensive house to heat—a fuel-waster, cold and drafty in winter in spite of everything you can do—and uncomfortably hot in summer. Eighty-three out of every hundred people who plan to build say they want insulation.

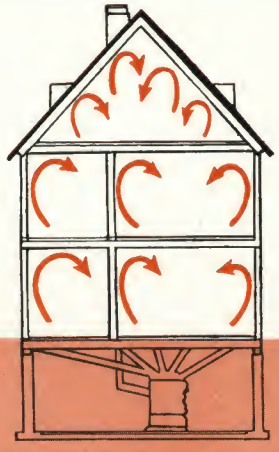
Thermal insulation may be any substance which obstructs the passage of heat. Built into the outer walls and top-floor ceilings (or under the roof), insulation saves fuel by keeping a larger proportion of heat inside the house. In summer, by a similar action, insulation halts heat from the sun, keeps the interior of your home cooler by several degrees than the outer temperature.

Many people believe they are insulating their houses when they put insulation into the top-floor ceiling—but this is only a partial job. Be sure to insulate your side walls, too!

Good insulation pays for itself in fuel savings alone in a few years. It makes your house more comfortable to live in and easier to sell. According to government figures, it is easily possible for efficient insulation to save you one-fourth to one-third of your fuel bill every winter. Let these diagrams show you just how insulation works:



The uninsulated house leaks heat through walls and roof. It leaks out in winter and in during summer.



The insulated house conserves winter heat, saves fuel by preventing excess loss through walls and roof.

The insulated house turns back blistering sun rays in summer, keeping the interior cool.

This uninsulated house permits the rapid escape of costly heat through the roof, which causes snow to melt almost as fast as it falls.

Snow remains on the roof of *this insulated house*, showing that the owner is conserving heat, saving fuel, enjoying the benefits of greater comfort.

THIS IS A TYPICAL 6-ROOM HOUSE

•

UNINSULATED

IT USES 10 TONS OF COAL

THIS modern 6-room house is typical of thousands. It could be your house. It has 1500 square feet net of side wall area and 700 feet of top-floor ceiling area. There are 17 windows and three outside doors, with 170 square feet of glass and door area, and there are cracks around them which let in cold air.

Side walls—ceilings—glass area—cracks around openings—those are the four places where heat is rapidly lost in any house.

Let's say, for the sake of argument, that this house with no insulation will use 10 tons of coal during an average winter. You may use oil or gas heat, but the proportions will remain the same. The charts show you just how much fuel is required to overcome the four sources of heat loss—and how each of the losses can be effectively cut:

Of the 10 tons, 2.3 tons go to replace heat lost through the top-floor ceilings of this house.

COAL LOST THROUGH CEILING

2.3 TONS

4.4 tons of coal are used to replace heat which has escaped through side walls—the largest single heat-wasting area.

COAL LOST THROUGH SIDE WALLS

4.4 TONS

Heat lost through glass accounts for 2.2 tons of the required coal.

COAL LOST THROUGH GLASS

2.2 TONS

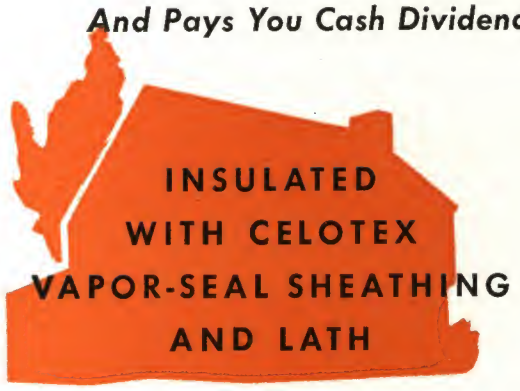
Cold air coming in around windows and doors must be warmed —takes 1.1 tons of coal.

COAL LOST AROUND OPENINGS

1.1 TONS

HERE'S HOW CELOTEX INSULATION PAYS FOR ITSELF QUICKLY

And Pays You Cash Dividends Every Year for the Life of Your Home!



USES 7.1 TONS OF COAL

The house has now been insulated with Celotex Vapor-seal Sheathing and Lath. Instead of 10 tons, only 7.1 tons of coal will be needed to maintain winter comfort in the same house during the same winter.

CELOTEX INSULATION SAVES 2.9 TONS OF COAL!

Thanks to 1" Celotex Vapor-seal Lath insulation, less heat escapes through top-floor ceilings—and only 1.3 tons of coal are required to replace that loss.

COAL LOST THROUGH CEILING
1.3 TONS

25/32" Celotex Sheathing and ½" Lath have reduced heat loss through side walls, so that now only 2.5 tons of coal are needed to make up this loss.

COAL LOST THROUGH SIDE WALLS
2.5 TONS

Celotex Insulation does not affect heat loss through glass, so this figure is still 2.2 tons.

COAL LOST THROUGH GLASS
2.2 TONS

Cracks around doors and windows are not affected by Celotex Insulation.

COAL LOST AROUND OPENINGS
1.1 TONS

USES 5.4 TONS OF COAL

In addition to Celotex Vapor-seal Sheathing and Lath Insulation, the same house has now been given the added protection of storm windows and doors. All four heat losses have now been economically reduced. We need only 5.4 tons of coal to keep the same house at the same comfort levels.

CELOTEX INSULATION SAVES 2.9 TONS
STORM SASH SAVES 1.7 TONS

Same as in previous diagram. *The 1" Celotex Lath Insulation MUST be installed at the time your house is built.*

COAL LOST THROUGH CEILING
1.3 TONS

Same as in previous diagram. *The Vapor-seal Sheathing and Lath Insulation MUST be installed at the time your house is built.*

COAL LOST THROUGH SIDE WALLS
2.5 TONS

With storm windows and doors, this loss is cut to .9 tons. *This protection can be added at any time after the house is built.*

COAL LOST THROUGH GLASS
.9 TONS

Storm sash and doors cut this loss to .7 tons. *This protection can be added at any time after the house is built.*

COAL LOST AROUND OPENINGS
.7 TONS

Be sure to include SIDE WALL and CEILING insulation in your plans—Specify Celotex

TO INSULATE ROOF AND NOT SIDE WALLS IS LIKE WEARING A MACKINAW AND NO PANTS!

SIDE WALLS . . .

ARE YOUR LARGEST HEAT-WASTING AREA

It Is All-Important That They Be Insulated When Your Home Is Built

THERE are more square feet of heat-wasting area in the side walls of a house than in any other single factor of fuel waste! And the *only time* these walls can be insulated efficiently and economically is at the time they are being built!

If it becomes a question of cutting costs, you can add roof or top-floor-ceiling insulation later on, without any appreciable price penalty or sacrifice of efficiency. Storm sash can be added at any time, without increasing their cost. But side wall insulation, to do its job well and permanently, *must be built into the walls before they are completed.*

You would hardly venture out into a blizzard wearing a mackinaw—without protection for your legs! Yet that is what it would amount to, if you built roof insulation into your new home and left the side walls uninsulated. Side-wall leakage lets drafts in. Side-wall leakage is what made the "north bedroom" a veritable cold storage plant in your grandmother's uninsulated house.

Be sure you provide insulation of proved efficiency for your side walls at the time your house is built!

CELOTEX VAPOR-SEAL SHEATHING

. . . USED IN PLACE OF ORDINARY SHEATHING . . .

DOES 3 JOBS AT ONE LOW COST

EVERY frame, brick veneer, stone veneer, or stucco house requires sheathing. This is the material which, nailed to the studding, first encloses the building. In old-fashioned construction, wood boards were used for this purpose. This wood sheathing was then covered with building paper, after which the wood siding, brick veneer, stone veneer, or stucco was then added to complete the wall.

Today, big, rigid boards of Celotex Vapor-seal Sheathing *replace* ordinary sheathing. Actual tests have proved repeatedly that this material provides *more* structural strength. In addition, at the one cost, it furnishes *insulation* of proved efficiency and the *vapor seal* so necessary with modern air-conditioning heating plants. In milder climates, this vapor seal is equally important as a preventative of troublesome condensation on walls.

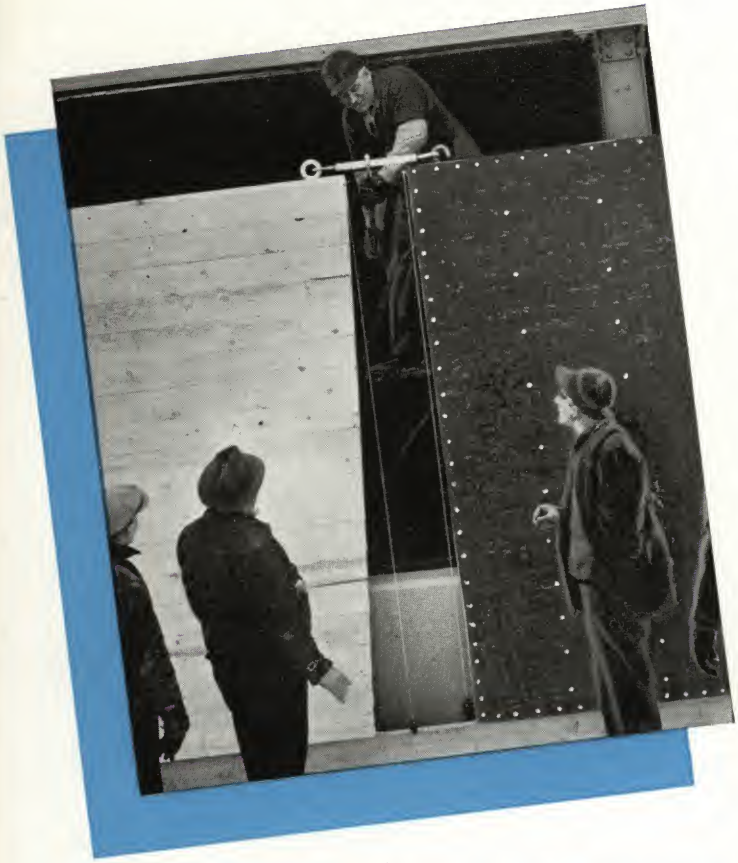
Two ordinary expenses—sheathing and building paper—are eliminated, making the net installed cost of your guaranteed Celotex Vapor-seal Sheathing very low indeed! *In fact, its cost in many markets is actually no more than that of ordinary wood sheathing.* Ask your Celotex Dealer about it!

Celotex Vapor-seal Sheathing 4 feet wide is nailed with four rows of nails, giving bracing strength equal to diagonal wood sheathing, and *far greater than horizontal wood sheathing.* Easy to handle, it goes up fast, stays put!

Cut into a piece of Celotex Vapor-seal Sheathing. See the millions of closely knit fibres which form the insulation—the coatings of asphalt and aluminum which provide the needed vapor seal!

CELOTEX VAPOR-SEAL SHEATHING

Means a STRONGER Sheathing, without Cracks or Knot Holes for Heat Leakage



THIS photograph shows the famous turnbuckle test, made by Columbia University, the University of Minnesota, and many other recognized authorities, which proves that Celotex Vapor-seal Sheathing has far greater bracing strength than horizontal wood sheathing.

Frames of equal size are built side by side, one covered with wood sheathing and the other with Celotex Sheathing. Then a turnbuckle is used to exert equal pulling power on both panels. The Celotex panel always holds its position, while the panel built with wood sheathing is drawn out of shape. Thus, is proved that with Celotex Vapor-seal Sheathing, you are assured a rigidly framed house which will resist distortion due to wind pressure or settling strains. This also reduces the chances of cracked plaster.

Furthermore, there are usually knot holes and cracks in wood sheathing—but every board of Celotex Vapor-seal Sheathing is perfect, free from openings of any sort, wind and weather-tight! No wonder it prevents drafts and heat leakage. Ask your Celotex Dealer!

NEW CENTER MATCHED VAPOR-SEAL SHEATHING

Applied Horizontally, Makes Weather-Tight Wall

CONTRACTORS and carpenters are enthusiastic in their praise of the new Celotex Center Matched Vapor-seal Sheathing, which comes in boards two by eight feet with tongue and groove running the long way. They say this smaller size makes the boards easy to handle, and that applying them horizontally gives a maximum of bracing strength.

There is no possibility of heat-leakage through cracks, since the center matched feature effectively closes horizontal joints, and all vertical joints occur on studding. Ask your local Celotex Dealer about this latest development in Celotex Vapor-seal Insulating Sheathing.

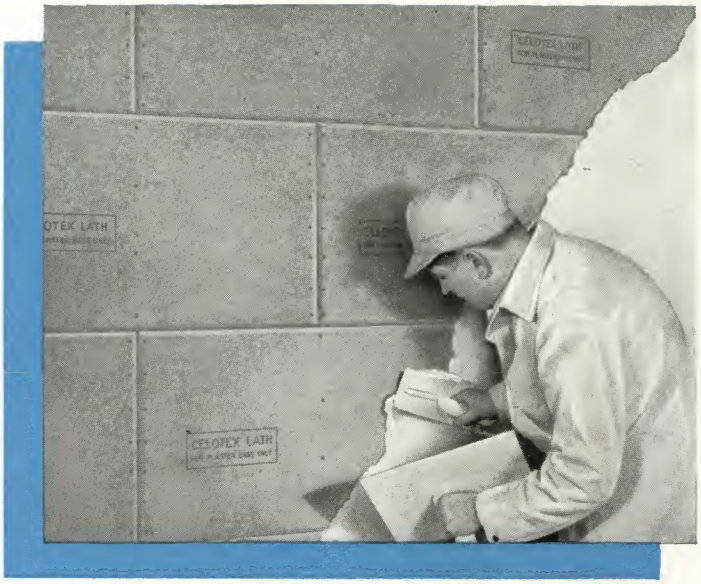
CELOTEX VAPOR-SEAL LATH

IN OUTER WALLS AND TOP-FLOOR CEILINGS

Meets 3 Requirements at 1 Low Cost

EVERY home with a plastered interior must have some kind of lath or plaster base. Celotex Vapor-seal Insulating Lath meets that requirement—furnishes an excellent plaster base. But in addition, at the same initial cost, this proved material provides efficient modern insulation for outer walls and top-floor ceilings, *plus* a scientifically correct vapor seal to prevent harmful moisture condensation in between-wall space.

Lathers and plasterers like to work with Celotex Vapor-seal Lath. It goes up easily, bends safely around moderate curves, insures a wall permanently free from ugly, disfiguring lath marks. Moreover, it reduces the chance of plaster cracking by providing a continuous uninterrupted plaster base which adds strength to the entire building.



By providing a continuous plaster backing and a strong, uninterrupted bond between plaster and lath, Celotex Vapor-seal Lath reduces chance of plaster cracks.

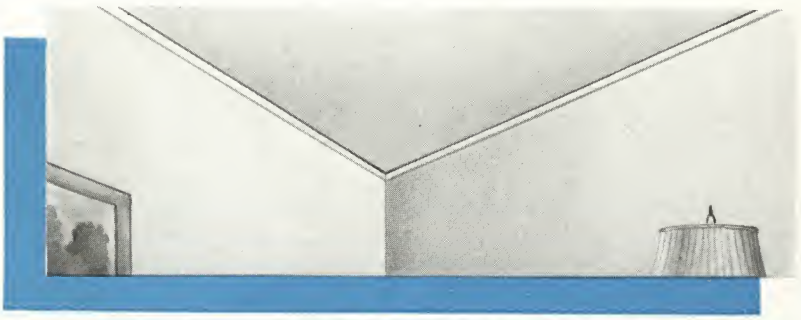
Joyous laughter and music from below, the detective story with its gun shots in the next room, are filtered from baby's room by sound-deadening Celotex Lath.

CELOTEX LATH ON INNER WALLS

Deadens Sound... Confines Noise

BE sure to use standard Celotex Insulating Lath *for the inner walls* of your home—for its strength, its freedom from lath marks, and its remarkable sound-deadening efficiency.

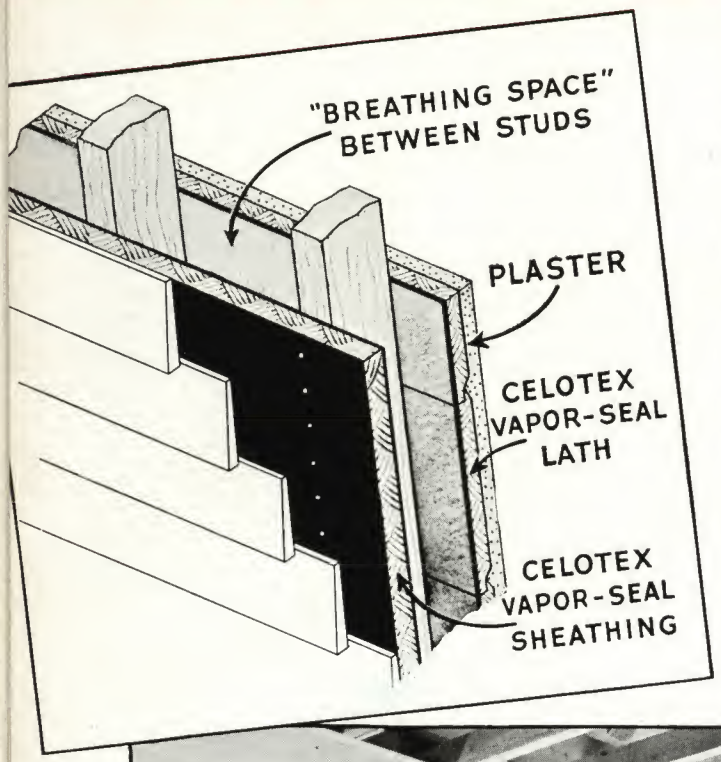
Noise, like heat, has trouble penetrating those closely-knit cane fibres with their millions of dead-air cells. This sound-deadening efficiency helps keep street noises from coming in, helps confine inside noises—radio, laughter, children at play—to the rooms where they originate. To make your home truly modern, use Celotex Lath on all walls to insulate it against noise as well as fuel waste. Ask your Celotex Dealer!



Ugly, disfiguring lath marks are permanently prevented in your home when your walls are plastered to solid, unbroken wall provided by Celotex Insulating Lath!

"Breathing Space" CONSTRUCTION

PERMITS EVAPORATION, KEEPS WALLS DRY AND SOUND



"Breathing space" in walls is important. It permits evaporation of any moisture which may penetrate between walls, and is a definite aid in keeping wood dry and sound through years of service.

WHEN you insulate with Celotex Vapor-seal Sheathing and Vapor-seal Lath, this important breathing space is kept open. Recommended Celotex construction calls for $^{25}/_{32}$" Vapor-seal Sheathing combined with $^{1}/_{2}$" Vapor-seal Lath for the walls, and 1" Vapor-seal Lath on top-floor ceilings. This gives you complete, efficient insulation, *guaranteed in writing for the life of the building.**

You actually pay for insulation, whether you get it or not! You pay for it, in actual cash paid out for wasted fuel. On the other hand, if you finance your house over 20 years, any slight increase in your initial payment to include Celotex insulation is more than covered by your fuel savings the first winter. From that time on, every year of the 20, your Celotex Insulation pays you a dividend as high as 200% to 300%!

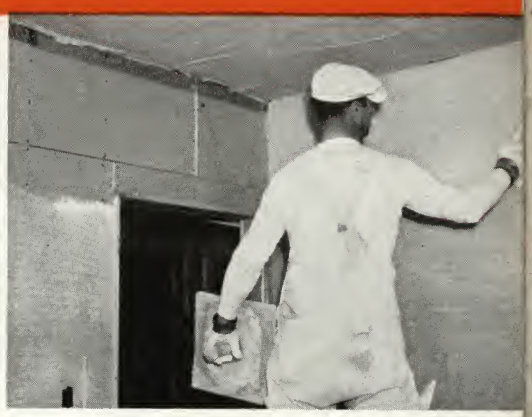
* See page 21.

Because of Celotex insulation on both sides of the studding, this house will be warmer in winter and cooler in summer; it will be less costly to heat, more healthful to live in.

ANCHOR GYPSUM PRODUCTS

ARE FIREPROOF, PERMANENT, ECONOMICAL

ANCHOR
LATH

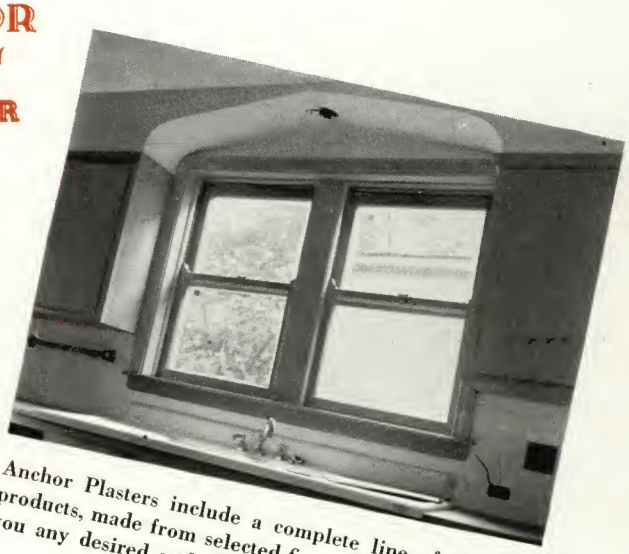


Anchor Gypsum Lath is made from selected fireproof gypsum rock scientifically processed according to most approved modern methods. Cast between strong fibered, durable paper chosen because of the excellent bond it forms, this lath provides a firm, permanent bond for plaster—insuring strong, permanent walls.

Lathers and plasterers like to work with Anchor Lath. And you'll admire the beauty of the finished walls obtained by plastering over this sturdy plaster base.

ANCHOR
PLASTER

Plastered walls are preferred by an overwhelming majority of home builders, and the choice of Anchor Plaster for your new home insures a product completely in keeping with the high quality standards always associated with any Celotex Product. Ask your local Celotex Dealer for complete information.



Anchor Plasters include a complete line of superior products, made from selected fireproof gypsum to give you any desired architectural effect.

Beautiful CELOTEX INTERIOR FINISH

BUILDS, DECORATES, INSULATES—AT ONE COST!

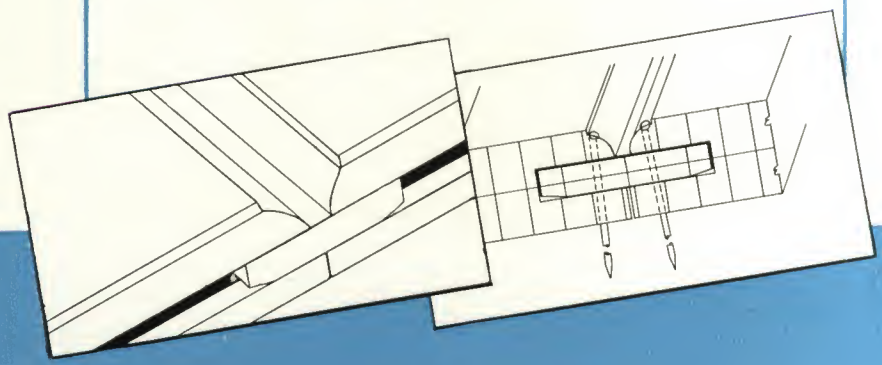
NORTH, East, South, West, America is discovering the beauty and economy of Celotex Insulating Interior Finish! Instead of insulating, lathing, plastering, and decorating, thousands of home owners are using this modern method of meeting all four requirements with one material, in a single operation!

Celotex Key Joint Units, for example, furnish a full three-quarters inch of efficient insulation. Applied direct to open framing, they design as they build, requiring no sawing or cutting except at room borders and openings. All edges of each unit are beautifully detailed; the patented spline conceals open cracks. And their factory-applied finish of rich, smooth ivory color does away with further need for decoration. (See Massachusetts photo at left.)

Celotex Insulating Plank and Tile, available in many tints and textures, likewise combine decoration and insulation. Be sure to have your own Celotex Dealer show you samples and demonstrate the many beautiful effects which can be achieved so easily—and so economically!

CELOTEX KEY JOINT UNITS DESIGN AS THEY BUILD

You can see in the photograph below how beautifully all edges of Celotex Key Joint Units are detailed—and how the spline hides cracks. Nail heads are hidden in the depth and shadow of the joints.



HERE'S BEAUTY, WARMTH, AND CHARM APLENTY!

A GRACIOUS LIVING ROOM WITH "HOMEY COMFORT"

Authentic English Provincial in style, this cozy, livable room uses Celotex Plank horizontally below the chair rail and vertically in a lighter finish above. Celotex Hardboard Moulding makes the interesting cornice, with Celotex Plank in random widths for the ceiling. The corner cupboard is of Celotex Studio Board painted white.

ATTIC DEN SAVES FUEL FOR WHOLE HOUSE

Two worthwhile purposes were accomplished by this Celotex-finished attic den: First, the whole family gained a cozy, secluded spot for lounging or recreation, cool in summer and warm in winter. Second, fuel bills were cut, because the Celotex Interior Finish acts as insulation, reduces heat loss through the roof.

ATTIC ROOM FOR "TEEN-AGE" GIRL

by editors of "BETTER HOMES & GARDENS"

● Here's a room that caters to every whim of the "young lady of the house"—a place to sleep, study, sew, or hold little informal social gatherings with school chums. It's a room she'll not only love, but one she will love *you* for giving to her—and you *can* so easily!

Completely planned and furnished by the editors of Better Homes & Gardens Magazine for a girl, this room could be quickly adapted to the use of a boy, or two boys. And the Celotex Interior Finish Products used not only mean low cost, easy heating in winter and cool comfort on hot summer days—but a definite aid in cutting fuel bills for the whole house as well. Because the proved insulating value of these products helps prevent the escape of valuable heat through the roof.

THERE'S NO LIMIT TO THE

Genuine selected walnut veneer adhered to Celotex Plank to make Celotex Texbord gives this room all the beauty of solid panelled walls. Available also in mahogany and avodire, Texbord is ideal for panelled dens, living rooms, dining rooms, or halls.

LOVELY EFFECTS POSSIBLE WITH

CELOTEX INSULATING INTERIOR FINISH

No need for shushing little folks, even if there is company upstairs in the living room. This basement play room of Celotex Plank, with a sound-muffling ceiling of Celotex Tile, gives them a place where they're free to have all the fun there is. Your home should have such a room.

THE ACTUAL NET COST OF CELOTEX

Used in Constructing Your New Home

COMPLETELY INSULATED
$93.30 NET
FOR FUEL SAVINGS and COMFORT

W. W. Norris, President of the well known Walter Norris Company, Chicago, says, "Because Celotex Insulation does a triple job—builds, vapor-seals, and insulates—at one cost, I will duplicate this large 6-room home, in the Chicago area, and the cost of complete Celotex Insulation will be only $93.30."

COMPLETE INSULATION
$85.00 NET
FOR THIS BIG 6-ROOM HOUSE

7 BIG ROOMS . . 2 BATHS
$95.00 NET
FOR COMPLETE INSULATION

"Because Celotex Insulation builds, insulates, and vapor-seals at one cost, complete insulation in this big 6-room house cost only $85 net!" says W. T. Nagle, Saginaw, Michigan, Designer and Builder. Low net costs are possible because Celotex Insulation replaces other materials, contributes structural strength!

In this charming suburban home the difference between uninsulated construction and complete insulation with Celotex Vapor-seal Sheathing and Lath was less than $95! The owner actually gets $335 worth of guaranteed insulation, but pays far less because Celotex eliminates $235 worth of other materials!

INSULATION IS AMAZINGLY LOW!

. . . Or as Insulating Interior Finish!

16′ x 24′ ATTIC DEN
$104.00*
FOR FAMILY FUN

THE WHOLE FAMILY ENJOYS THIS FUN ROOM
Dad's guns and golf trophies, mother's books and easy chair, the children's ping-pong table find ample room up under the roof in what was "forgotten space." The beamed ceiling adds that outdoor "woodsy" look . . . and the cost of Celotex Interior Finish plus the labor of putting it on was only $104.00.*

16′ x 12′ ATTIC BEDROOM
$70.00*
PLEASANT AND SNUG

NOBODY'S SCOLDED WHEN TOYS AREN'T PICKED UP
Up here, away from spic-and-span rules, it's fun to get out the playthings while the rain's drumming on the roof! And when the sun comes out and toys are left strewn around, nobody gets scolded, because they're in nobody's way! This room—only $70.00.*

UNDISTURBED BY MOTHER'S GUESTS!
Clear the track for the Streamliner! And if there's a noisy wreck, mother's afternoon guests up in the living room won't know it! Give your children a basement room of their own, like this, in your new home. At $84.80* this attractive room is a bargain in undisturbed recreation!

13′ x 17′ BASEMENT ROOM
$84.80*
THE CHILDREN'S OWN

**For the size room shown, including both Celotex Insulating Interior Finish and labor to apply it. Cost will vary, of course, with room conditions and dimensions, and local labor costs.*

CELOTEX CANE FIBRE INSULATION

*Permanently Protected Against Termites and Dry Rot— Guaranteed in Writing for the Life of the Building**

Originally a tropical insect, the termite is now active in most of the 48 states, his destructive action on wood causing millions of dollars damage every year. But he will never attack your Celotex Cane Fibre Insulation, protected by the exclusive, patented Ferox Process!

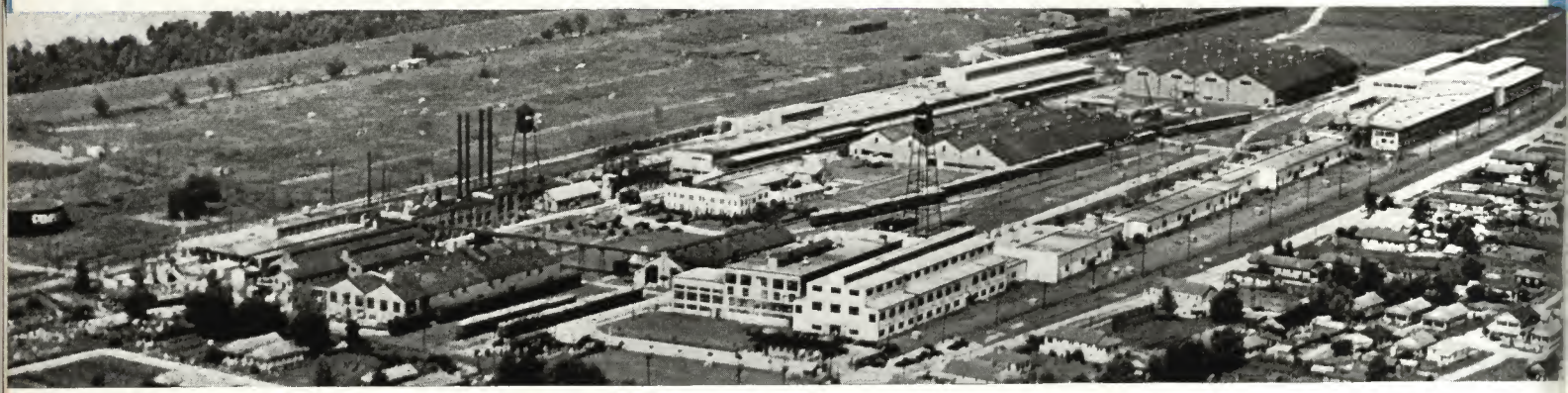
One inch of Celotex Insulation has a heat stop value equal to:

THE Celotex Corporation is the world's largest manufacturer of structural insulation. As a pioneer in this field, this organization discovered the insulating value of long, tough fibres of bagasse (sugar cane) and developed the process by which these fibres are made into big, rigid boards.

All Celotex Cane Fibre Products are manufactured under the Ferox Process (patented), an integral chemical treatment toxic to fungus growth, dry rot, and termites (white ants), which effectively protects them against these agencies of destruction.

Not only is Celotex Cane Fibre Insulation economical because of its replacement of other building materials but also because it pays for itself over and over again in fuel saved. In addition Celotex Insulation is GUARANTEED IN WRITING FOR THE ENTIRE LIFE OF YOUR HOME!* Read this binding guarantee carefully, as shown on the opposite page, and see for yourself how it safeguards your insulation investment!

**This guarantee, when issued, applies only within the boundaries of Continental United States.*



ONLY CELOTEX GUARANTEED INSULATION FURNISHES THIS WRITTEN LIFE-OF-BUILDING GUARANTEE

Safeguards Your Insulation Investment as Long as Your Home Stands!

CELOTEX

REG. U. S. PAT. OFF.

NUMBER 2500

Life-of-Building Guarantee
Celotex Cane Fibre Insulation Board

This guarantee covers a total of approximately _____ square feet of Celotex Cane Fibre Insulation Board applied as _____ in the _____ located at _____ address _____ city _____ state

This CELOTEX Product is GUARANTEED to maintain insulating efficiency for the life of the building —
this CELOTEX Product is GUARANTEED to provide structural strength —
this CELOTEX Product is GUARANTEED to give lasting fuel economy —
this CELOTEX Product is GUARANTEED against destruction by termites —
this CELOTEX Product is GUARANTEED against destruction by dry rot —
this CELOTEX Product is GUARANTEED to be water repellent —
this CELOTEX Product is GUARANTEED to reduce noise —
this CELOTEX Product is GUARANTEED not to settle away from the framework —
this CELOTEX Product is GUARANTEED against loss of insulation efficiency upon painting or plastering —
this CELOTEX Product is GUARANTEED to meet Dept. of Commerce commercial standards CS42-32 and U. S. Federal specifications LLL-F321a —

—and we will, at any time, during the life of said building, furnish without cost to the owner or owners thereof, a sufficient quantity of new Celotex Cane Fibre Insulation Board to equal the Celotex Cane Fibre Insulation Board covered by this guarantee which our examination shall disclose to our satisfaction to have failed to comply with any part of this guarantee, provided said Celotex Cane Fibre Insulation Board has been used or treated in complete accordance with Celotex Cane Fibre Insulation Board specifications as published and effective on the date of the installation of said Celotex Cane Fibre Insulation Board or on the date of this guarantee and said building has not been misused, neglected, moved or subjected to accident and at all times has been kept, and at the time of any claim hereunder is, in good repair, free from malicious attack and weatherproof.

This guarantee is in lieu of all other guarantees, warranties or representations, expressed or implied. No one is authorized to assume any other liability for us in connection with our products. This guarantee is not valid unless sealed and countersigned.

DATED at Chicago, Ill _____ THE CELOTEX CORPORATION

_____ President

Counter _____ Special Officer

WORLD'S LARGEST

WHITE ROCK GYPSUM WALL BOARD

Builds Beautiful Walls Quickly, Easily, Economically!

See the smooth, unbroken beauty of White Rock Wall Board as used in this handsome living room!

White Rock Wall Board hastens the occupancy date of a home—there's no delay waiting for plaster to dry!

• • •

You can hold a blow torch flame right against the surface of White Rock Wall Board without danger of setting it afire. Gypsum rock doesn't burn!

WITH the rapid increase in popularity of "dry-built" construction for homes, new thousands of owners every year are making use of White Rock Gypsum Wall Board for interior finish throughout the house.

White Rock Wall Board has a core of fireproof gypsum rock, with a beautifully finished surface ready for decoration—or it can be left in its natural state for walls of distinction, attractiveness and dignity.

Or you may let White Rock Wall Board do its own decorating, by selecting one of the new grain finishes which give your room the beauty of wood paneling!

CELOTEX HARDBOARD TILE

REG. U. S. PAT. OFF.

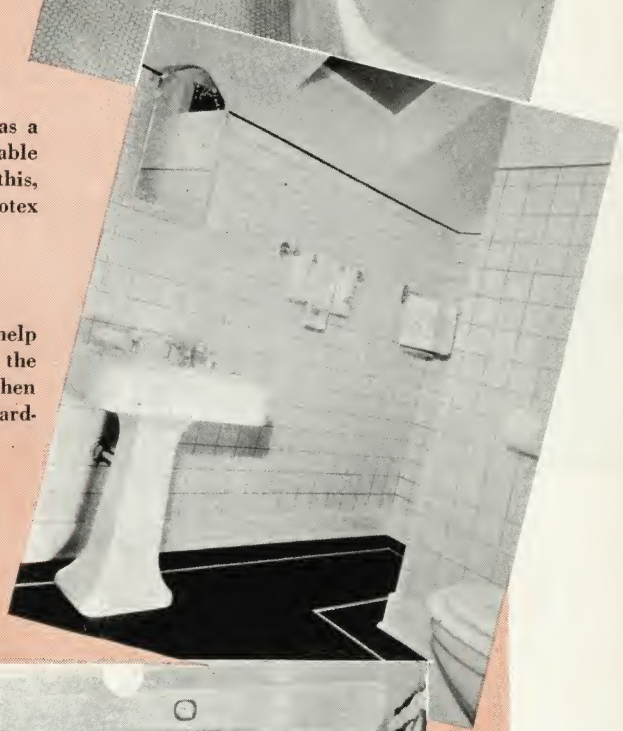
Makes Smart KITCHEN AND BATHROOM WALLS

Kitchens and bathrooms are given the final touch of modern beauty and smartness by Celotex Hardboard Tile—moisture-proof, colorful, easily cleaned!

The beautiful smooth finish of this modern material takes paint or enamel perfectly, enabling you to follow any desired color scheme while having the neatly squared tile effect which is so popular in today's kitchens and bathrooms.

Especially favored is the combination of Celotex Hardboard Tile for walls, with Celotex Hard Board for work table and counter tops, under cupboards or adjoining sinks.

Ask your Celotex Dealer to show you samples of these products!



Spic and span and neat as a pin! That's the invariable effect of bathrooms like this, when finished with Celotex Hardboard Tile.

• • •

Bathroom walls can't help getting spattered, but the spots wipe off in a jiffy when moisture-proof Celotex Hardboard Tile is used.

Back of stove and sink, easily cleaned Celotex Hardboard Tile makes kitchens smart, modern, easy to clean.

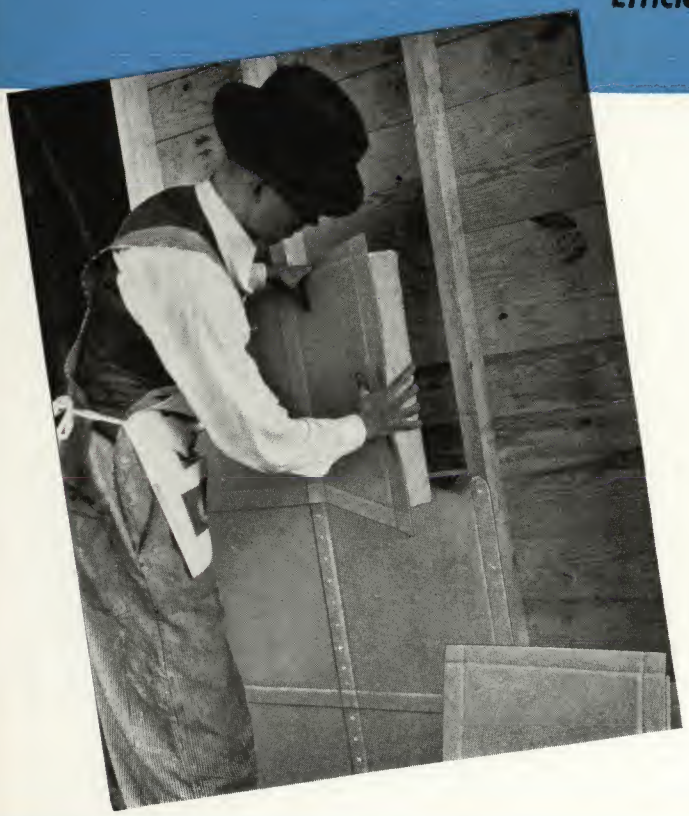
Inviting, isn't it? And your new kitchen can be equally so, at small cost, with walls of Celotex Hardboard Tile!

CELOTEX ROCK WOOL BATTS

PAPER-BACKED

Efficient, Permanent, Wall Thick Insulation

Vapor-proof, Vermin-proof, Fireproof



MAKE your home snug and warm in winter; cool and comfortable in summer. Celotex Rock Wool Batts act like a blanket to keep heat inside in winter and outside in summer. Icy winds or blistering sun — the fluffy, flexible, water-proofed fibers of Celotex Rock Wool paper-backed batts are equal to job of providing year-round insulation.

Made from selected minerals, Celotex Rock Wool is clean, lightweight, fireproof, efficient. Formed into batts, backed with a vapor-proof paper membrane, it fits snugly between standard joist and stud framing without settling. For high efficiency insulation, ask your Celotex Dealer about Celotex Rock Wool.

CELOTEX TRAFFIC TOP

The Ideal Surfacing for Roof Decks Over Porches or Garages, As Well As for Basement Recreation Room Floors

CELOTEX Traffic Top, the most modern surfacing for exposed roof decks or basement floors, is impervious to weather and resilient under foot. It prevents moisture condensation on concrete basement floors.

Available in colors, this improved roof surfacing deadens sound and protects built-up roofing from all kinds of weather. Passes firebrand tests, and is permanently protected against termites and dry rot by the exclusive, patented Ferox Process.

If you have been considering tile for either or both of the above purposes, you will be delighted to find how much less expensive Celotex Traffic Top is—and how completely it meets all requirements.

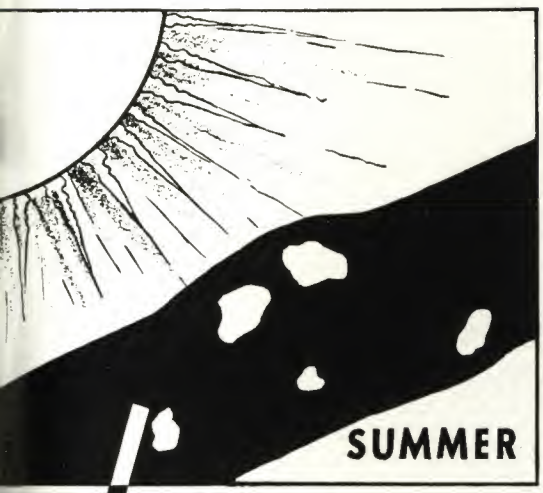
Insist on CELOTEX

REG. U. S. PAT. OFF.

TRIPLE SEALED SHINGLES

Extra Years of Service at No Extra Cost!

Tiny air and moisture bubbles, trapped inside roofing felts during manufacture, *contract with cold* . . .



. . . and *expand with heat*, weakening the structure and eventually leading to trouble. The Celotex Triple Sealed Process drives out pocketed air and moisture—gives 3-way protection!

The roof of your home will be its most important single factor of protection from weather. When you buy that protection, you want as many years of service as you can possibly get for your money. You want a roof which will not only give you full protection for a maximum span of years, but which will be in keeping with the architecture of your home —styled for beauty and color.

Since fire insurance is one of the important items to consider in figuring costs, you want a roof which entitles you to a low fire insurance rate.

Insist on Celotex Triple Sealed Shingles—for extra service at no extra cost—for the utmost in modern style and beauty—and for insurance savings! The Celotex Triple Sealed manufacturing process gives you three-way protection from rain, heat, wind, and snow.

(1) INNER SEALED—*By special process, asphalt is forced into felt base* from one side only! *Air and moisture* are driven out *ahead of the asphalt.*

(2) OUTER SEALED—The *saturated* base is next dipped in an asphalt bath—*encased in a second seal.*

(3) FACE SEALED—Finally, a tempered mineral-filled asphalt coating is applied—*thus forming a tough, durable third seal.*

Celotex Triple Sealed Shad-O-Grain Shingles.

Safeguard Your Investment

WITH

CELOTEX

REG. U. S. PAT. OFF.

TRIPLE SEALED SHINGLES

WHEN you have moved into your new home, you won't be thinking of the roof very often. It's up where you don't notice it, and you forget about it. That's why it's important to have a roof you can safely forget for years and years!

Celotex Triple Sealed Shingles give you such a roof. They'll stay up there, protecting your home under the blistering heat of summer sun, the icy blasts of winter storms, year in and year out. Because of the Celotex Triple Sealed manufacturing process, these shingles contain no tiny bubbles of air and moisture to expand and contract, to cause trouble.

And the mineral granules which give these shingles their beautiful modern colors are tested and proved for color permanence! Years from now, your roof will have the same rich beauty as the day it was laid!

Safeguard your home investment with Celotex Triple Sealed Shingles—the roof you can safely forget!

YOUR CHOICE OF LATEST STYLES AND COLORS

Celotex Shad-O-Grain Shingles present a delightful weathered wood grain effect built up on the shingle for added shadow depth which harmonizes with any style of architecture. Available in Green Blend, Gray Blend, Red Blend, Brown Blend.

Celotex Three-Tab Thick Butt Shingles have an extra coat of asphalt and granules for extra protection on exposed area. They are offered in Red Blend and Green Blend, Lawn Green, and other beautiful colors.

Long a favorite style, Celotex Standard Hexagonal Shingles present a fine appearance on almost any style house. Available in your choice of Old Standard Red, Blue Black, Brick Red, Old Standard Green, Lawn Green, Aluminum, Purple Slate Blend, and Blue.

Many other styles available — See your Celotex Dealer!

BE SURE TO GET ACQUAINTED WITH YOUR

CELOTEX DEALER

Let Him Help You Build BETTER for LESS with
CELOTEX PRODUCTS

Your own local Celotex Dealer has had years of experience in the building business. It is part of his job to know about the latest money-saving developments in home construction. And you will find him full of friendly interest in your own problems, no matter what type or price home you may be planning.

Ask him lots of questions! Get him to show you Celotex-insulated homes which have recently been completed—or are now being built—right in your community. He'll be glad to introduce you to people who have lived within the comfort of Celotex Insulation for years—and be sure to ask *them* about it!

Your Celotex Dealer has worked closely with architects and contractors. He can, if you wish, help you get an F.H.A. loan. And he has full information on the Celotex-F.I.C. Budget Plan for remodeling, should you decide to enlarge your home at some future date. In short, his experience in everything pertaining to the planning and building of homes is entirely at your disposal—without obligation. His advice and counsel should help you build a better home than you would otherwise have—for less money than you would otherwise pay!

CELOTEX
REG. U.S. PAT. OFF.
PRODUCTS

The word Celotex is a brand name identifying a group of products marketed by The Celotex Corporation.

THE CELOTEX CORPORATION • 919 N. MICHIGAN AVE. • CHICAGO, ILLINOIS

PRINTED IN U.S.A.

125M—1-40-631

PLUMBING AND HEATING

FOR THE MODERN HOME

CRANE

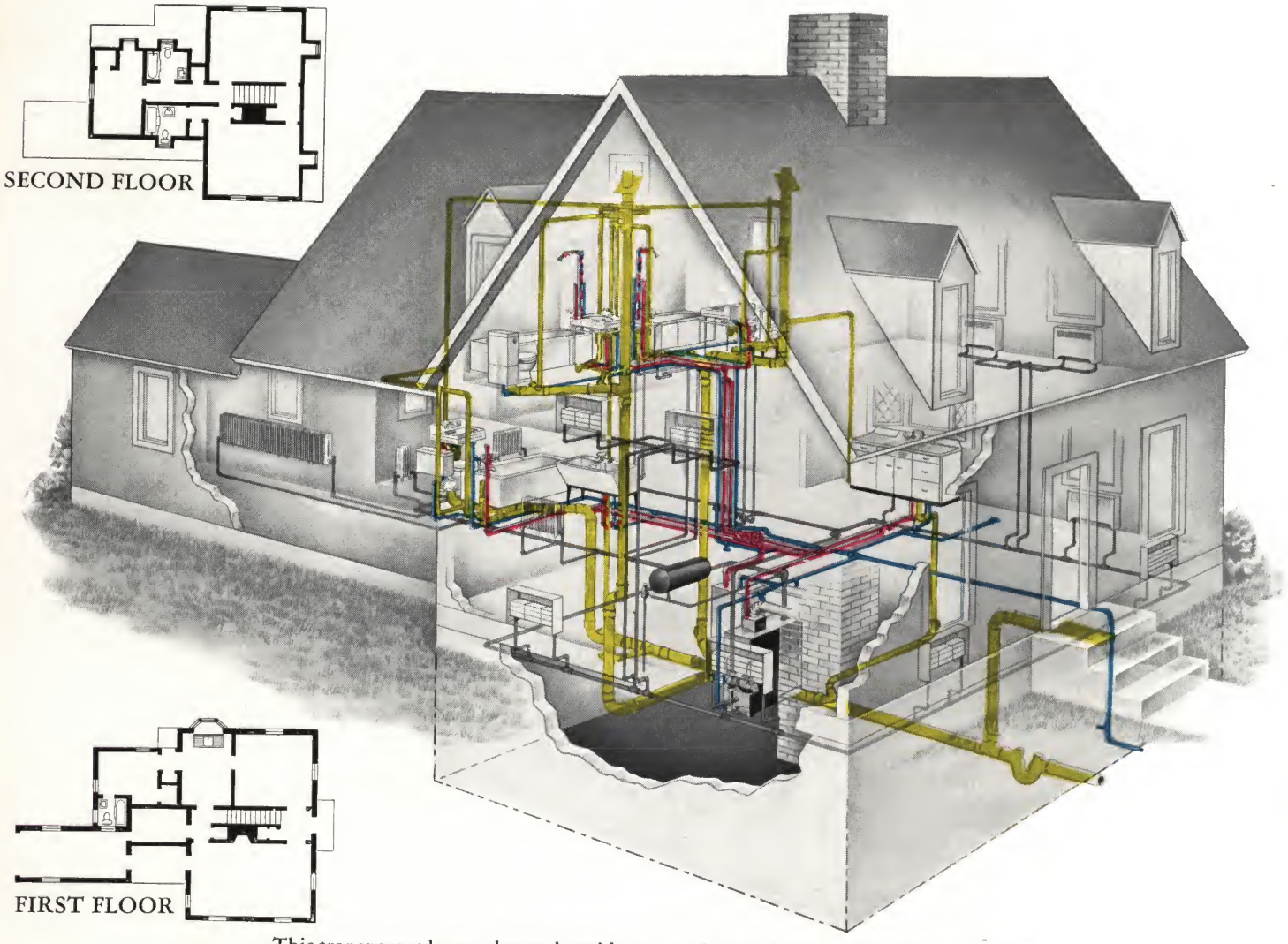
CRANE-EQUIP YOUR ENTIRE HOME FOR MAXIMUM SATISFACTION

REGARDLESS of the size of the home—regardless of the price range, it is deserving of the best in equipment. In plumbing and heating this best by any standard is Crane.

The name Crane has stood for quality in materials and workmanship since the founding of the company over 80 years ago. So synonymous have been the two, Crane and Quality, that many people have jumped to the erroneous conclusion that Crane fixtures must be high priced. As a matter of fact, you pay no more for Crane Quality than for much plumbing and heating equipment similar in general appearance but of greatly inferior value. Often Crane fixtures cost less to install.

The huge Crane plants producing porcelain enamel and vitreous china plumbing equipment—radiation and boilers—valves and fittings—coupled with the extensive Crane distribution system, nation-wide in scope, mean modern mass operation and therefore the lowest possible price consistent with high quality.

For the satisfaction of having the best, the most complete, convenient and modern home one could desire, Crane-Equip throughout with Crane Bathtubs, Lavatories, Showers, Sinks, Laundry Tubs, Crane Boiler, Radiators, Convectors, even Crane Valves and Fittings. Specify Crane and be sure of enduring quality and an investment in long, satisfactory service.



This transparent house shows the wide range of Crane Equipment and demonstrates the importance of quality in the hidden piping as well as in the exposed fixtures.

Planning WILL GIVE YOU A CHARMING BATHROOM

PROBABLY no room in the house offers a greater opportunity for the exercise of ingenuity in planning than the bathroom. Here is a room that first of all, should be convenient and practical, but at the same time the chance to make the bath charming and inviting, too, must not be overlooked.

Of course, any bathroom plan must take into consideration the hidden piping—the valves and fittings behind the walls and beneath the floors, upon whose proper planning the efficiency of the room depends. Naturally, you will want to consult with your architect and plumbing contractor on this important phase of planning.

These experts can help you too in the arrangement of fixtures—the convenient little places for storage—the interesting architectural effects and the decoration that you will want.

In the matter of color, you can, if you like, install gleaming white Crane fixtures which will fit in with any color scheme you may choose. Or you can have handsome Crane fixtures in colors—for Crane lavatories, bathtubs and closets are all made in Orchid Pink, India Ivory, Citrus Yellow, Suntan, Pale Jade, Lucerne Blue, Persian Red, and Black, as well as White. This not only offers you a wide selection of fixture colors, but many an opportunity for interesting color effects in your bathroom as well.

To help you in planning your bathroom, Crane has provided a bathroom planning service, available for consultation at every Crane Branch. This complete service will be of help to you in every step of your planning, giving you valuable information on room arrangement, on the selection of materials and actually helping you to obtain the best plan to suit your room and your taste.

In addition to this service, Crane has prepared a book on bathroom planning that will be of interest to you in planning a room to suit your taste. For further information on this see page 27 of this issue.

NEUVOGUE BATHROOM FIXTURES

Utility Made Beautiful

NEUVOGUE is Crane's answer to modern styling. Indeed, *Neuvogue* represents a new departure in the bath for the modern home. Simple, functional, practical, these fixtures take on a sculptured charm from their pure lines and flat planes—a charm the more harmonious and pleasing because it is inherent in the design of each piece.

Conceived in the spirit of today's demand, utility made beautiful—the *Neuvogue* design joins the essential lines, planes and curves into an artistic relationship and without the addition of extraneous ornaments, each piece emerges a thing of beauty in its own right.

Perhaps most remarkable at first glance, is the achievement expressed in the lavatory. The conventional oval bowl has given way to a new shape, wide at the front with lots of room for head and elbows. It curves back in a sweeping line with ample shelf space—just where you want it.

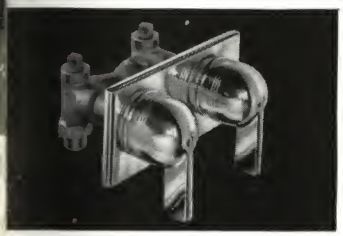
This is made possible by the new treatment of the faucets for in *Neuvogue* the supply fittings and waste control have been grouped together—out of the way—yet easily accessible.

Consider the tub. The wide, flat surface provides a convenient comfortable seat. The nearly vertical sides add to the bottom area of the tub—assure a roomy luxurious bath.

In the *Neuvogue* closet the continuation of the planes of the tank to the floor not only eliminates exposed pipes, making for easy cleaning, but gives a long, vertical line so simple and dignified. *Neuvogue* fixtures may be had in white or in any standard Crane color.

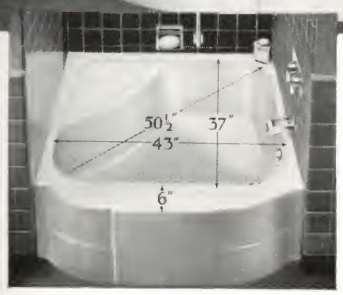
NEUVOGUE CORNER
BATHTUB C 3225

Made for either corner or recessed installation. Sides are nearly vertical to take advantage of every square inch of room, and sloping end provides an ideal back rest. Flat bottom increases safety and wide comfortable seat on the rim makes this an ideal tub for foot bathing.



NEUVOGUE FITTINGS

On bathtub and lavatory the generous sized handles, so easy even for wet fingers to grasp, operate at a touch. Their position gives a visual guide to the temperature of the water. Sturdy, strong, they assure the maximum in efficient service.



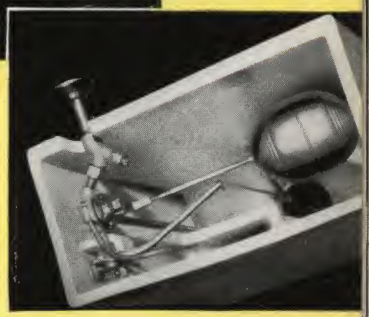
NEUVOGUE RECEPTOR
BATH C 3190

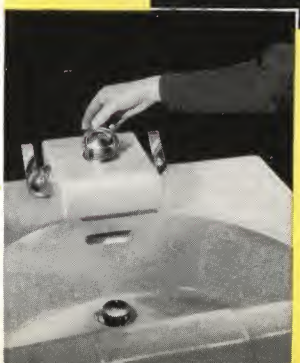
Ideal for use with a shower in the small room or room of unusual shape. Despite its 4-ft. width the receptor actually gives the equivalent of a bathtub 5½ ft. long. Large, flat bottom means greater safety.

The design assures quiet operation and the whirlpool siphon jet action means quick, positive flushing.

NEUVOGUE CLOSETS C 10381

A truly modern closet to suit today's tastes. The tank has been narrowed to give slender lines to the fixture. Solid base at the floor makes cleaning easy leaving no hidden corners. The seats are plain surfaced when closed to harmonize with the overall design; open to a hygienically correct curve approved by medical authorities.





NEUVOGUE
LAVATORY C 128

A novel idea in bathroom fixtures, the *Neuvogue* lavatory has the controls grouped together at the center, leaving the top area free for toilet articles. Basin has the width at the front where it is wanted. Comes in flat bar support as shown or with metal legs or pedestal base.

CRANE

Paneled Fixtures

Modern in design with many new and advanced features, the Crane complete line of paneled fixtures offers the utmost in style and appearance as well as the utmost in utility and efficiency. The panel design so characteristic of the bathtub may be seen echoed in the front of the lavatory and the tank of the closet. Together these fixtures offer a unified matched set that will lend an air of charm and distinction to any bathroom.

But handsome as Crane paneled fixtures are, they present a practical beauty; for each fixture is carefully designed for the utmost efficiency and service, the utmost utility in performing the purpose for which it is intended.

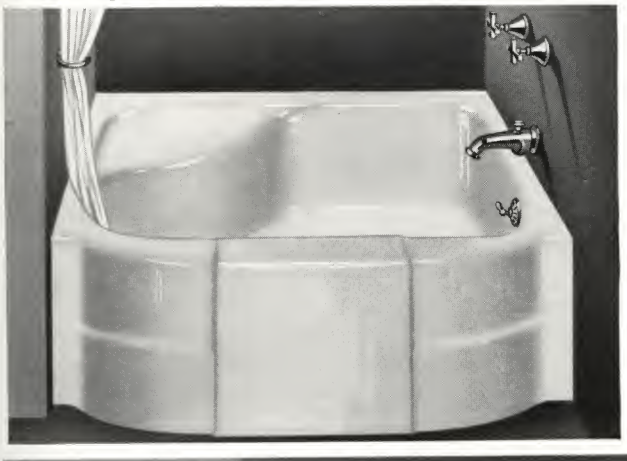
Consider the bathtub illustrated above—its low height, only sixteen inches from floor to rim, makes it easy to step in and out, straight sides increase its capacity so that it holds more water than the conventional tub. The flat bottom reduces the danger of slipping; and the rim has been widened at the front to form a comfortable seat so convenient when foot bathing or in dressing.

Or take the lavatory. The basin has been widened in the front; and its sweeping curve not only gives lots of room where it is most needed, but makes available a convenient flat space for placing toilet articles as well. The modern fittings assure rapid draining—a waste control that operates at the touch of a finger.

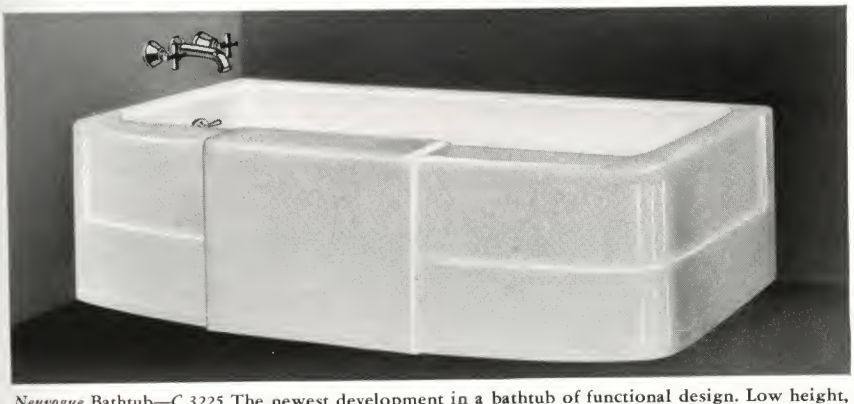
In the closet, again functional design has made the fixture pleasing because of its very practicability. The seat is low for comfort and the whole fixture compact — designed to occupy the minimum amount of space. The elimination of connecting pipes between bowl and tank not only gives the closet a modern appearance, but aids in preventing embarrassing noise.

In the complete line of Crane matched panel fixtures, you will find just the equipment best suited to your taste and your pocketbook; made in white and all standard Crane colors.

Coronova Bathtub — C *3285* A beautiful tub in modern panel design, only 16 in. high from floor to rim. Smooth, flat bottom gives greater security when bathing. Made in 4½, 5, 5½ and 6 ft. lengths. May be had for right or left-hand corner. *C 3306* Same as above but recess pattern.



Neuvogue Receptor Bath — *C 3190* Where small space or unusual design makes the use of a conventional tub impractical this receptor bath will make an ideal installation. Only four feet across, its unique design gives the equivalent of a bathtub 5½ ft. long. Ideal for shower bathing.



Neuvogue Bathtub—*C 3225* The newest development in a bathtub of functional design. Low height, straight sides, large flat bottom. Wide rim seat is extremely convenient for foot bathing or when dressing. Made in 5 and 5½ ft. lengths, recess or corner designs.

Hanover Closet—*C 11004* Low in height, quiet in action, this beautiful panel front closet is designed for the modern bathroom. Comfortable low seat, whirlpool action, self draining jet are features you will want in the closet you buy.

Merit Closet—*C 11000* Tank and bowl are close coupled, making for handsome appearance and assuring quiet action. Modern panel design means an attractive bathroom. Made of gleaming vitreous china, easy to clean; whirlpool action and self draining jet.

Diana Lavatory—*C 129* Charmingly new in design, the *Diana* paneled lavatory possesses all those features you would expect to find in a much higher priced lavatory. Sizes 24 x 20 in., 27 x 21 in.

Drexel Lavatory—*C 167* Modern panel design, with extra large basin combining charm with practical utility. Made of vitreous china—easy to clean. Spout moulded into fixture, gives tempered water. Fittings are mounted on an angle panel.

Sizes 22 x 18 and 27 x 21 available with either Securo waste or Rival waste.

Norwich Lavatory—*C 154 WM11* Vitreous china with ample slab space. Mixing spout for tempered water. Chromium plated fittings. May be had on chromium legs as illustrated or wall hung. Sizes 20 x 18 in., 24 x 21 in., 27 x 22 in.

CRANE FIXTURES AVAILABLE IN A
TO MEET EVERY TASTE AND

Coronet Lavatory—*C 281* Vitreous china lavatory, easy to clean. Has a shelf to keep toilet articles out of the way, yet right at the finger tips. Controls set on an angle panel; and single spout moulded into lavatory gives tempered water. Sizes 24 x 20 in. Handsome cabinet provides ample storage space.

Norwich Pedestal Lavatory—*C 259* A handsome lavatory made of vitreous china, easy to clean. Has a full pedestal making a decidedly attractive installation. Single mixing faucet gives tempered water. Quick draining waste operates at a touch of a finger. Fittings, chromium plated. Sizes 27 x 22 in. and 24 x 21 in.

Coronada-Lavinet — C 1991 A porcelain enameled lavatory with lots of shelf room. Single faucet gives water of just the desired temperature. Convenient slab space for placing toilet articles. Roomy cabinet gives ample room for storage. Has shelves on the door. Chromium towel bars if desired. Size 24 x 20 in.

Neuton Closet — *C 11145* A decidedly inexpensive closet yet Crane quality throughout. Streamlined design means attractive appearance. Flushing mechanism operates easily giving a strong positive quiet flush. Made of vitreous china with seat and cover of wood, having sprayed white finish.

Manor Closet—*C 10490* Truly a closet for the finer home. One piece construction means low height and extremely quiet action. Low height seat means better hygiene and greater comfort. Whirlpool action and self-draining jet. Cover and seat finished with sheet covered plastic.

DENTAL LAVATORIES

These dental lavatories appeal to the fastidious taste. Small in size they are a decidedly sanitary convenience. They also relieve congestion in the bathroom. Home owners today find them a highly desirable addition to the bathroom.

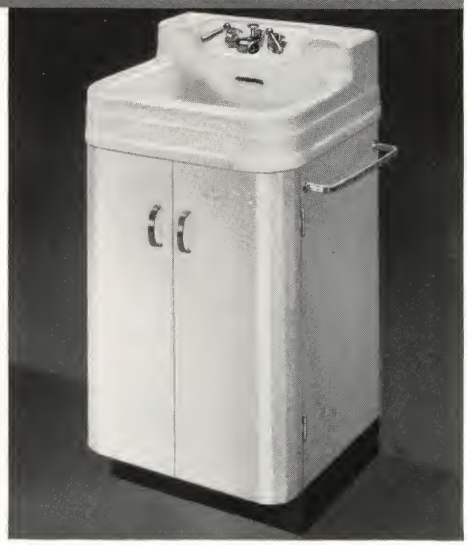
Dentrix Lavatory —*C 1223* Made of vitreous china. Has shelf back and angle supply panel. Size 12 x 12 in.

Corwith Lavatory —*C 1213* A compact shelf back dental lavatory with a single spout for tempered water. Made of vitreous china. Size 16 x 15 in.

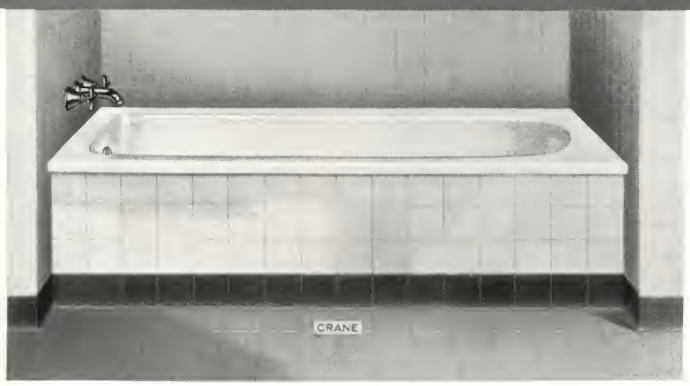
WIDE SELECTION EVERY PURSE

On this page are shown a representative selection of bathroom fixtures and accessories from the complete Crane line. Some are decidedly inexpensive, designed for the modern, compact home—others are intended to serve those who demand the finest in home equipment. But regardless of the fixture selected and regardless of the price all are of one quality—Crane throughout built to assure lasting satisfaction.

Corwith Lavatory—*C 1995* Porcelain enamel on cast iron easy to keep clean. Has chromium plated legs. Large basin to assure greater convenience. Ample slab space for toilet articles. Mixing faucet gives tempered water. Sizes 27 x 22 in. and 24 x 20 in. Available with towel bars as shown.

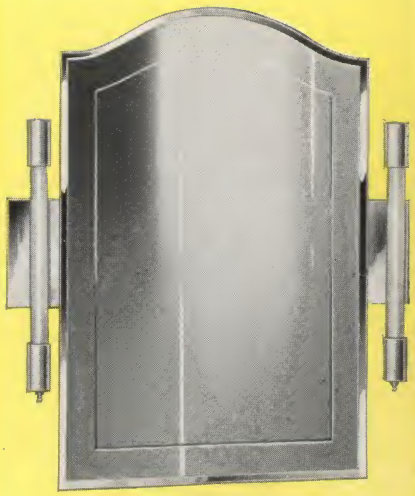


Neuday Lavatory—*C 2504* This Cabinet Lavatory combines simplicity with maximum convenience. Made of porcelain enamel on cast iron, strong and sturdy. Basin is compact yet of ample size and a handy shelf is provided for toilet articles. Has roomy cabinet. Available in two sizes 19 x 17 in. and 24 x 18 in.



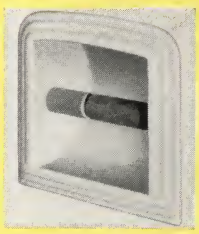
Tarnia Bathtub—*C 3336* For the finer bathroom this tiled-in tub is both distinctive and beautiful. Lends itself to many tiled settings. Furnished in 5, 5½, and 6 ft. lengths, all 32 in. wide, or 5½ ft. long and 36 in. wide.

Verna Bathtub—*C 3370* A modern, moderately priced tub of Crane quality throughout. Inside is porcelain enamel on cast iron; outside may be painted to match any color scheme. Made in 4½, 5, 5½ ft. lengths.

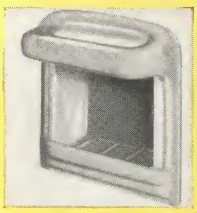


Mirrored Cabinet — *C 26892* Door entirely conceals the cabinet. Equipped with side lights, extremely useful when making up or shaving. Has removable glass shelves. Size of mirror 18 x 26 in. The Crane line includes many other cabinets in all styles and sizes.

Crane Simplicity Accessories. This line includes Grab Bars, Towel Bars, Shelves, Paper Holders, Toothbrush Holders, Soap Holders and other accessories. All are heavily chromium plated on brass. Illustrated is *C 25117* vertical Grab Bar 18, 24, and 36 in. long.



C 24984 Vitreous china built-in recess paper holder. 6 x 6 in. in 3⅝ in. recess.



C 24973 Vitreous china recess grab bar and soap holder. 6 x 6 in. in 3⅝ in. recess.

WHY NOT A HALF BATHROOM FOR YOUR HOME?

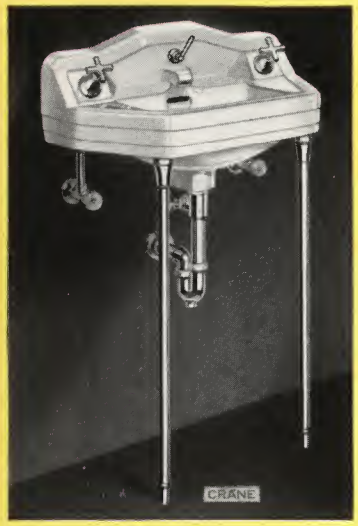
THE Half Bathroom also known as the Powder Room or Downstairs Lavatory, is a much appreciated addition to any home. Occupying but little space, in fact, often tucked in at the end of a hall or below a stairs, the Half Bathroom practically doubles the sanitary facilities of many homes and is considerably less expensive to install than a complete bathroom. In a two storied home the Half Bathroom located downstairs is today considered a necessity. It is convenient when guests are being entertained; and its saving in energy for the homeowner makes it a worthwhile investment. The Half Bathroom can be extremely simple in treatment or it can be made into a distinctive powder room, such as the one shown, as the taste of the owner dictates.

In the complete Crane line there are fixtures just suited to the Half Bathroom. Quiet closets are designed to fit in the confined space available — lavatories with large, usable areas ideal for toilet articles—handsome and convenient mirrors and accessories, as well.

Be sure to consult with your Architect or Master Plumber on the addition of this valuable room to your home.

Siwelclo Closet—*C 10384* A correct posture closet of handsome design. Tank and closet form a close coupled unit which assures quiet action. Closet is low in height and has a strong jet flushing action.

Neuton Closet—*C 11125* A very handsome closet designed to sell at a decidedly low price. Quiet, positive action is assured by the Crane design and construction. Connection between tank and bowl concealed.



← *Cromwell* Lavatory — *C 174* A real space saver for the small room or the half bathroom. Center mixing spout gives tempered water. Fittings are mounted on a center panel for convenience. May be had with legs as shown or wall hung. Size 26 x 14 in.

→ *Sterling* Lavatory—*C 180E12* A vitreous china lavatory with raised shelf. Mixing faucet gives tempered water. Fittings are chromium plated. May be had in wall hung style or with legs as shown. Decidedly inexpensive and compact. Sizes 20 x 18 in. and 24 x 21 in.

Hermitage—*C 654* An extremely compact lavatory of gleaming vitreous china for the powder room or half bath. Back protects wall. Single mixing faucet gives tempered water. Sizes 20 x 13½ in. and 26 x 13½ in.

Mixing Valve Shower

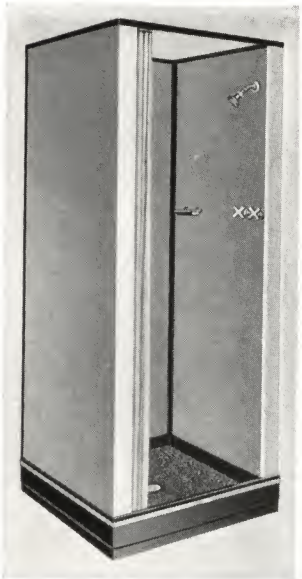
C 4364-B In this shower the Crane Mixing Valve is used, assuring convenient control of the water temperature. All necessary water connections are concealed in the wall. An added feature of this shower is the screw-driver controlled stops. These permit adjusting of the water pressure.

Twin Valve Shower

C 4265 A beautiful, well-made shower, with concealed economy valves having renewable seats. Shower head with an adjustable ball joint. Chromium plated. Large easily grasped handles make control easy even for wet, slippery hands.

Thermostatic Shower

C 4420-BA A shower of the highest grade for those who appreciate the best. Has a thermostatic mixing valve which prevents sudden changes in water temperature. Screw-driver operated stops permit adjusting water pressure or shutting off the water if desired.



Shower Compartments

C 4712 Particularly suitable for an extra shower in the basement. Baked enamel finish in a handsome pastel green. Base is black porcelain enameled outside, mottled green and black inside, with chromium-plated waste strainer. Head is of the *Refreshor* type easily cleaned.

A Crane Shower

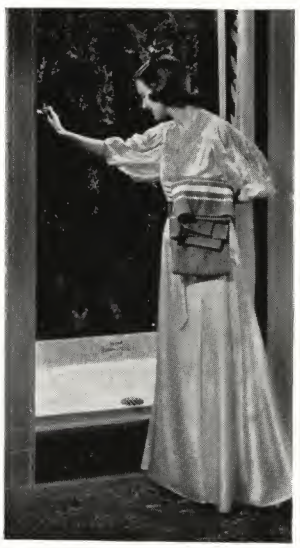
FOR HEALTH AND COMFORT

Nothing is so invigorating or healthful as a clean, sparkling shower. This modern sanitary method of bathing is a necessity in every home—in every bath. Cooling, refreshing in summer—warm and pleasant in winter.

Crane showers are designed for every home—for every purse. Mixing valve showers—separate valve showers—even complete shower compartments for the extra shower in the basement.

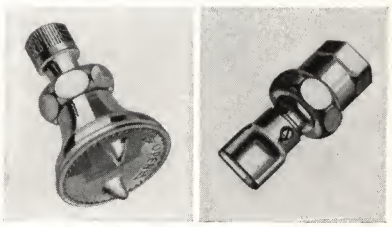
All Crane showers are of the familiar Crane quality-built to give you lifelong satisfaction.

Shower Stall Floor



C 5090 *Rubberceptor* a shower stall receptor of one piece, seamless rubber construction that cannot leak. Warm and comfortable to the feet—it absolutely prevents slipping. Economical to install, you can have a shower stall for very little outlay. May be had in ivory marbleized with black and black marbleized with white. Fits in space 36 x 36″.

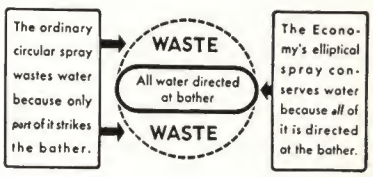
Shower Heads



Refreshor Economy

Refreshor—C 4875-B The *Refreshor* Shower Head assures you a snappy, needle spray—a bath pleasant and invigorating at an actual saving of one-half the water used in the conventional head. Easily cleaned by simply turning the head.

Economy—The Crane *Economy* Shower Head, using less water than the conventional head, directs all of the shower on the bather. The water is aerated, assuring a soothing, invigorating spray.



SUPERIORITY OF *Crane Equipment*

QUALITY COUNTS IN THE EQUIPMENT YOU INSTALL

In choosing plumbing and heating equipment for the home, quality is of paramount importance; for replacements are difficult and costly and a single bill for repairs may easily be greater than the slight difference in cost between Crane high quality and equipment of inferior construction. Then, too, the matter of pride must be taken into consideration; for plumbing and heating equipment is purchased on a long time basis and the enduring beauty of Crane-Equipment will remain a testimony to your taste and judgment for the life of the house. Below is a brief discussion of the quality Crane builds into all equipment carrying that name. Because of space limitations it is necessarily brief, but it will suggest to you the importance of selecting equipment made by a reliable manufacturer.

CRANE VITREOUS CHINA

Crane vitreous china is produced in our own potteries—at Trenton—one of the oldest in the country; here is combined the tradition of an ancient art with the most modern equipment. Made of the finest clays, receiving the most minute inspection at every step in production—Crane vitreous china retains its gloss and its original beauty throughout the years. Vitreous china fixtures are fired to a hard, wear-resisting surface as easily cleaned as a china plate.

CRANE ACID-RESISTING PORCELAIN ENAMEL

In the making of the smooth close-grained gray iron castings and in the even application of porcelain enamel, every step in the production of Crane enamelware is under the most careful control and rigid inspection. The result is a product that shows its quality by comparison.

Crane porcelain enamel is smooth and easily cleaned with a damp cloth. The acid-resisting finish makes it impervious to fruit juices or household acids—it is durable and will retain its beauty for years.

In the purchase of inferior porcelain enamel there are pitfalls for the unwary; for while its defects may not be really apparent, yet these flaws may develop after installation.

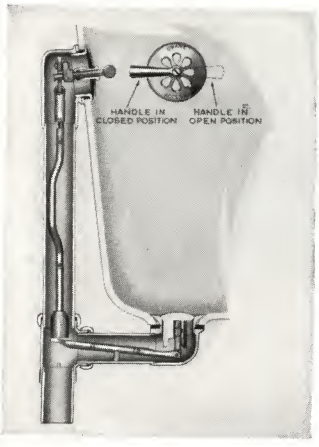
The name Crane is your guarantee of maximum quality and maximum service—your assurance that careful supervision and inspection have protected you against defects.

CRANE QUALITY PLUMBING BRASS

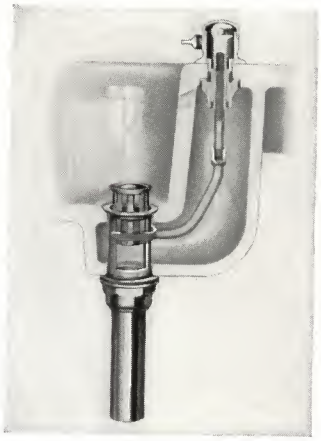
Important as are beauty of design and smooth, gleaming finish in plumbing fixtures, equally important are faucets which deliver the water, the waste that assures proper draining if you are to receive the years of satisfactory service which you have a right to expect from the plumbing equipment you buy. Crane fittings are ruggedly designed to give plus service. Their smooth, heavy chromium-plated finish not only adds to the beauty of the fixture, but means easy cleaning and long life as well. In design, Crane Plumbing Brass assures better performance, easy repairs and more satisfactory service.

CRANE QUALITY BRASS HAS FEATURES YOUR HOME DESERVES

Newsleeve Faucet Unit—Longer life for faucets is found in the *Newsleeve* unit. Entire operating unit may be replaced without removing faucet from fixture, slips in like a cartridge.



Accesso Bath Waste—An exclusive Crane design, that seals the tub at outlet; water used by previous bather cannot contaminate fresh supply. Positive lever action—tight and trouble-free.



Lever Action Securo—Quick draining lavatory waste. Designed to produce rush of water which leaves the bowl clean. Positive action operates with a touch of the finger. Strainer removable for cleaning.

Crane Deviator Spout for Showers—Turn on the water; it runs from the spout. Raise the knob; it gushes from the shower. When the water is shut off knob drops back. No chance of an inadvertent dousing.

FAMILY PLANNED KITCHENS

WHAT do you expect of your kitchen? First, of course, you want a comfortable place to work—a room designed to help you perform your tasks with a minimum of steps and a minimum of effort. Then you want a cheery, happy room, pleasant and homelike. But Crane home economics experts have found that a kitchen in most homes is more than just a room where meals are prepared—for instance most families eat one or more meals per day in the kitchen—many housewives prefer to do their ironing in the kitchen; and it is not uncommon for the kitchen to become a sewing room in off hours.

Growing children, sometimes, like a place to study near where mother is working. Nothing appeals more surely to the guests who come in for an evening than refreshments served with studied informality in a kitchen designed for that purpose.

For years Crane Co. has led in the scientifically planned Kitchen; and these years of experience are your guarantee that your Crane planned kitchen will, indeed, save you steps and make your housework easier. But the Crane Family Planned Kitchen is a new conception in kitchen planning, designed to suit you, your needs, your household and your tastes. Here are some suggestions:

EATING—Most American Families like to eat at least one meal a day in the kitchen. This being the case, many kitchens should certainly be planned with this function in mind. A breakfast nook or dinette may be provided in a plan that takes efficient kitchen layout into consideration as well.

IRONING—With an ironing board that swings down from the wall when the cabinet is opened and an electrical outlet right there for the iron—it is so convenient to do this task in the kitchen.

And when the ironing is over, the board is raised out of the way—and the kitchen is spick and span in an instant.

SEWING—What to do with the sewing machine is a problem in most every home. Here is a happy solution. With an electric outlet available, with a table on which to spread patterns, cloth, pins, thread—the kitchen seems to be quite a popular place for sewing. A special cabinet can be provided to conceal the sewing machine.

PLAYING—The dining space with its table and chairs provides an excellent spot for the smaller members of the family while mother is at work. Here in a handy cabinet they can have their toys and dolls—their paints and papers. Easily cleaned floors that defy rough usage are another added advantage.

ENTERTAINMENT—With the kitchen the "showroom" of the house, it is amazing how guests will gravitate to it. Many of today's most successful parties have been held in the kitchen—not because they were planned that way, but because of its attractiveness and intimacy. And what more ideal spot in the house is there for the children to entertain than in the kitchen. Here they can pop corn—and here is plenty of working area on which they can make candy.

RESTING—Many are the five- and ten-minute periods when you want to sit down and rest—time too short to go to the living room, yet too long to leave something you are cooking. Most women tell us that they like a comfortable place to sit down—so they see to it that there is a place that can be used for this purpose.

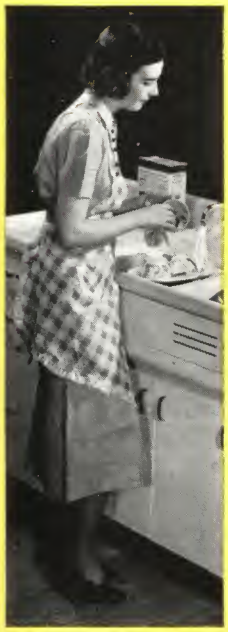
But these are only a few ways in which the Family Planned Kitchen can serve you. For regardless of what you expect of your kitchen, a Crane Family Planned Kitchen can give you the features you want and at the same time assure you an efficient, modern kitchen designed to make your tasks easier.

Crane will help you to have the kitchen you want. Be sure to send for the booklet "Family Planned Kitchens" described on page 27 containing much interesting information for you on the modern, humanized kitchen.

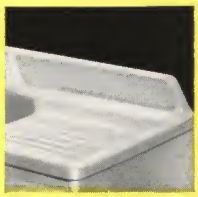
The nearest Crane Branch also has valuable information on Kitchen Planning available for your use or the use of your Architect and Plumbing Contractor. Be sure to see this interesting material before you plan your kitchen.

Advantages OF CRANE MODERN SINKS

"Comfort angle" supply panel with swinging mixing spout giving tempered water and handy retractable rinsing spray. The safety ledge keeps glasses and cups out of harm's way. Two 8-inch deep compartments with stoppers are a great convenience.



Crane sinks measure 36 inches from the floor to the rim—just the right height for comfort and to prevent fatigue from kitchen duties.



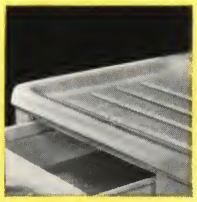
The 4-inch back permits windows to be lower.

Recepto strainer can be lifted out and emptied.

Wood cutting board included. Upper drawers linoleum lined.

A sliding cutlery compartment in upper drawer.

Recessed sub-base provides ample toe room.



Drainboards are depressed 1 inch.

NO single item of equipment in the home gives greater service than the sink. A well designed, well built sink actually means countless hours saved in kitchen duties — a more pleasant, more comfortable home besides.

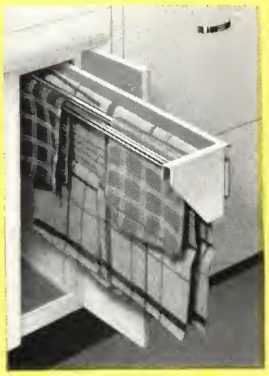
Crane sinks incorporate all those features that Crane research, under the direction of home economists, has proved desirable. Just the right height for comfort, 36 inches, Crane sinks make work easier. The gleaming finish of porcelain enamel on rigid cast iron is easily cleaned with a damp cloth.

On sinks shown on pages 16 and 17, the low height back, only 4 inches, permits installation below a window and the "comfort angle" control panel places all the fittings within easy reach of the fingers yet out of the way.

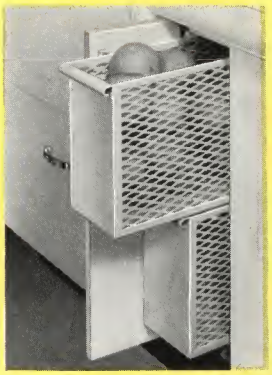
The cabinets under these sinks are of steel with a durable baked-on enamel finish and the sub-base is recessed to give toe room.

Many conveniences are provided such as removable strainer in sink compartment to catch crumbs and fruit parings. A retractable spray to reach every corner of the sink is a great aid in cleaning vegetables and washing dishes; depressed drainboards and a safety ledge where glasses or cups may be placed.

Crane sinks are made in sizes and styles to suit every kitchen and every taste.



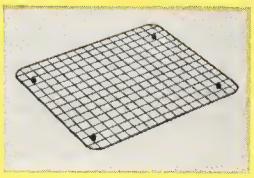
Sliding towel rack keeps towels and dishcloths out of the way—yet easily accessible.



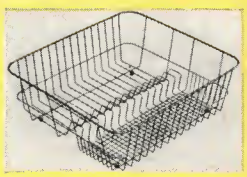
Concealed by a small door are two removable containers for fruit or vegetables.

Recessed Center Panel provides knee room, permits correct posture.

Rubber mats for protecting sink compartment and drain boards.



A wire mat in the bottom of the sink compartment will prevent scratching of sink and reduce breakage of dishes. Tinned, non-rusting with rubber feet.



Wire dish drainer designed to fit sink compartment. Substantially made with rubber feet.

Kitchen Queen "AMERICA'S FINEST SINK"

The big, roomy cabinet of steel with baked enamel finish has been designed for utmost efficiency. Here are two removable, ventilated containers to hold fruit and vegetables and a sliding towel rack to hold dishcloths and towels. Top right hand drawer has linoleum lined sliding cutlery tray. Top left hand drawer has removable wood cutting board. Both top drawers are linoleum lined. Four deep drawers are provided for storage. Space beneath the sink gives storage room and a wire utility rack is furnished for holding soap.

The black sub-base is recessed to give toe room. The patented recessed front panel provides space for the knees assuring correct posture and preventing fatigue.

A beauty in appearance—the *Kitchen Queen* is efficient and practical in service as well. Truly a luxurious sink, designed for the family which is satisfied only with the best.

A full 72 inches long, the *Kitchen Queen* has two large sink compartments—8 inches deep—convenient in dishwashing or food preparation and two depressed drainboards, so deep that water will not surge over the rim. The low back, only 4 inches high, permits installation below a window and the one-piece construction completely does away with any danger of water seepage.

Made of acid-resisting porcelain enamel on cast iron—the surface is easily cleaned and cannot be harmed by household acids.

Has *Recepto* strainer that opens and closes waste at a touch of the finger—catches any large particles of refuse.

No. C 19070 length 72 inches, width 25¼", height from floor to rim, 36". No. C 10971-R with right-hand integral end or C 19071-L with left-hand integral end to fit in corner. C 19073 with two integral ends for recess installation. Also furnished less spray hose.

Can be furnished with right-hand compartment designed for installation of a General Electric waste "Disposall."

Kitchen Pride DOUBLE COMPARTMENT SINK

The *Kitchen Pride* is a compact, double compartment sink especially desirable for use with a continuous counter. The one-piece construction assures a water-tight, sanitary installation. Two compartments, 8 inches deep, are a great aid in food preparation or dishwashing. A "comfort angle" supply panel, swinging mixing faucet and rinsing spray are all convenient features. The *Kitchen Pride* has a low back, only 4 inches high, which facilitates installation below a window. Acid resisting porcelain enamel on cast iron, impervious to ordinary household acids.

Cabinets are of all-steel construction with durable baked enamel finish, chromium-plated hardware and black recessed sub-bases for toe room. May be had with C 19986 recessed front cabinet as illustrated or with C 19987 flush front cabinet having four shelves.

Size 38 x 25¼", 36" from floor to rim. Numbers with spray hose C 19083.

Has *Recepto* strainer that opens and closes waste at a touch of the finger—catches any large particles of refuse.

May be had also with right-hand compartment designed for the installation of a General Electric waste "Disposall."

Sunnyday EFFICIENT KITCHEN BEAUTY

For the home preferring a double drainboard sink with a single compartment—*Sunnyday* represents the most modern advance in sink design.

Sixty full inches of gleaming, acid-resisting porcelain enamel on cast iron in one piece, without insanitary cracks or crevices, and with rounded easy-to-clean corners. The four-inch back permits a lower window above the sink. Large capacity basin, eight inches deep, can be closed at outlet to serve as a dishwashing receptor. Drainboards are depressed.

A convenient swinging spout with mixing feature directs the water stream. The entire fixture operates from a "comfort angle" beveled panel back. An added convenience is the retractable spray which reaches every inch of the sink surface. With this sink, dish washing becomes a simple task.

Size 60 x 25¼", 36" floor to rim. C 19150 as illustrated. C 19151-L or R with left or right ends for corner installation. C 19153 with two ends for recess installation.

Sunnyday sinks can be furnished with enlarged outlet for use with General Electric Co. waste "Disposall."

The cabinet is of steel with a baked-on enamel finish—easy to clean. Hardware is chromium plated.
Space is provided below sink and may be used for storage or for refuse receptacle.
Has *Recepto* strainer that opens and closes waste at a touch of the finger—catches any large particles of refuse.
A linoleum lined sliding tray is provided in upper right-hand drawer. Both top drawers are linoleum lined.

Homemaker CONVENIENCE IN SMALL SIZE

The *Homemaker* is ideal for the small kitchen. This compact fixture has a single depressed drainboard to prevent water surging over rim, "comfort-angle" control panel, 8" deep basin, 4" high back to facilitate installation under window, safety drying-ledge for stemware. A swinging spout, and a removable cup strainer are also included. Made of acid-resisting porcelain enamel on cast iron, it provides a glistening, easily-cleaned surface.

Has *Recepto* strainer that opens and closes waste at a touch of the finger—catches any large particles of refuse.

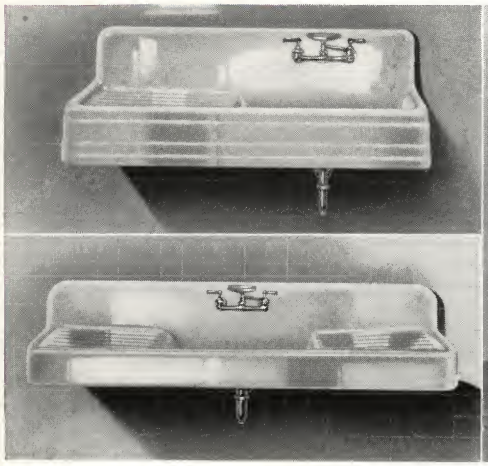
Cabinets for the *Homemaker* are all-steel construction with durable baked enamel finish, chromium plated hardware and black recessed sub-base for toe room.

Sizes 42 x 25¼" and 52 x 25¼", 36" floor to rim. C 19158-R with right or C 19158-L with left hand drainboard. For corner installations with 4" back extending around the ends on basin side only, specify C 19161-R for right hand corner or C 19161-L for left hand corner.

A Sink FOR EVERY HOME

REGARDLESS of personal taste in kitchens, there is a Crane sink just designed to suit every home. In the complete Crane line you will find the sink you want, with cabinet or without, with single or double drainboards, to fit against the wall, below a window or in a corner. Crane makes sinks with one or two compartments, flat rim, roll rim or apron styles of all one piece construction and of one quality—the highest.

In planning a kitchen it will pay you to consider the step-saving efficiency a modern Crane sink will bring you. Consult your plumbing contractor who will be glad to help you choose just the right size and style of sink for your needs.



TOP *C 19179—L Corland Sink.* Single drainboard for either right or left hand side. Can be furnished with storage cabinets. Sizes 42 x 22″ and 52 x 24″.

BOTTOM *C 19184* An apron sink of Crane quality. Cabinets can be furnished if desired. Sizes 60 x 20″, 74 x 20″, 60 x 22″ and 74 x 22″. May also be had with single drainboards.

C 19230 A moderately priced sink of single drainboard type possessing many conveniences found only in more expensive styles. Large surface 42 x 20″ or 52 x 20″ and 6″ deep basin. Back is 8″ high. Roomy C19069 baked enameled steel cabinet provides ample space for storage.

TOP *C 19356* This two compartment, flat rim sink is designed for installation in continuous counters. May be had in 32 x 20″ or 42 x 22″ sizes.

BOTTOM *C 19228* A roll rim sink with double drainboards. Size 60 x 22″. May be had with single drainboard if desired. Cabinet can be furnished for either style.

Efficiency IN THE LAUNDRY

CORRECT equipment in the laundry saves time and makes work easier. Crane laundry tubs, the right height, the right depth, with hard, durable, easily cleaned surfaces, rounded corners and handy swinging faucets are a blessing on wash days. In glistening white, they are an attractive and important part of a cheerful, efficient laundry.

C 21129 Two-compartment Everbrite (all-clay) tub with shelf, glistening white, has handy shelf across back. Easy to clean. Size 40 x 27″.

C21253 Porcelain enamel inside, painted outside, cast iron flat rim tubs. Compartments 24 x 20″, 24 x 22″ and 25½ x 25½″.

C 21179 Battery of single compartment Everbrite (all-clay) laundry tubs; individual tubs 24 x 24 inches.

C 21294 Two compartment cement composition laundry tub with steel supporting frame and metal rim. 24 x 48 inches.

CRANE AUTOMATIC HEATING

WITH Crane Automatic Heating on the job you can relax with never a thought of tending the furnace—the thermostat on the wall, set at the temperature you want maintained, tends the fire for you, automatically providing the correct amount of heat without a thought or care on your part.

Modern, automatic heating systems consist of many separate parts, all of which must function not only individually, but in combination with all other parts if maximum heating efficiency is to be assured. The stoker or oil burner must be properly designed for the boiler—the boiler must be of both the right size and right type for the whole system—pipe, valves, radiators, convectors—all form essential parts of the system, the efficiency of which depends on their proper functioning as a unit.

Because the Crane heating line is complete—because it includes boilers of every size and style to burn coal, oil or gas—because valves, fittings, radiators, convectors, controls and water specialties, all carry the name Crane, you are assured of maximum satisfaction when your heating system is a Crane system. Then, too, one responsibility for all the equipment means a completely guaranteed system with minimum annoyance and maximum satisfaction.

Every heating system is of necessity tailored for each house. Comfortable, economical heating depends upon the experience of the man who designs the heating system. Your Architect, Heating Engineer and Heating Contractor, because of their years of experience are familiar with heating problems. Their impartial judgment can be relied upon to recommend the system best suited to your needs. Whatever their recommendation you will find just the equipment to give you the best overall satisfaction in the complete Crane line.

NEW CRANE NO. 10 BOILER

Here is a boiler, newly designed for today's needs—possessing features that make it ideal for any installation for it is designed to burn coal or coke, oil or gas efficiently and economically. The extra high base means a deep ash pit ideal for stoker installation. The removable grate supports make it practical to install the No. 10 as a hand-fired boiler and later to convert it to stoker firing or change it over for oil or gas firing if desired.

This flexibility means absolute independence of fuel supply and is an additional sales feature in case the house is sold.

The new Crane No. 10 Boiler incorporates all those features that Crane Research and modern heating practice have proved most satisfactory in home heating—most economical in fuel consumption. Because of enlarged flue area more heat is absorbed from the gases as they travel back and forth through the flues until every last bit of available heat is transmitted to the water. Bubbles which form on the inside of the boiler and actually insulate against heat, wasting fuel dollars are scrubbed away by the rapid flow of water.

All this means savings for the homeowner—better heating as well.

In the New No. 10 the handsome dark green jacket extends clear to the floor and is heavily insulated with asbestos which stops heat loss. Be sure to consider this modern boiler when you are planning a new heating system.

AN ALL PURPOSE BOILER FOR ANY FUEL

FEATURES OF THE NO. 10

1. Designed to burn any fuel. Oil burner or gas burner may be installed in front. Stoker may be installed at either front or side.
2. Removable grate supports and high base make installation of stoker at a later date simple and inexpensive.
3. Built-in water heater can be furnished to provide an economical supply of hot water for laundry, kitchen and bath.
4. Handles are non-heating and hinges are concealed.
5. Enlarged flue area means greater heating efficiency—lower fuel bills.
6. No need of frequent firing, an extra large combustion chamber holds ample fuel.
7. Crane patented water travel improves heat absorption—means fuel saving.
8. Handsome insulated green jacket finished in baked-on-enamel, extends clear to the floor.
9. Large doors mean easy firing and easy ash removal.
10. Clinkers cannot force grates out of position—non-jumping sockets keep them in place.
11. Greater ceiling surface than in ordinary boilers. More water surface is exposed to heat which means saving in fuel.
12. A quick installation—free from leaks—is assured because all Crane Boilers are assembled at the factory and tested before shipment.

CRANE COAL-FIRED BOILERS

CRANE NO. 110 SECTIONAL BOILER

Similar to the Crane No. 10 Boiler but designed to sell at a lower price, the No. 110 can well be said to give the greatest dollar's worth of heating satisfaction. The handsome dark green jacket extends to the base and is of baked-on enamel—easy to clean. This new boiler has enlarged flue area and the Crane patented water travel to assure maximum economy. Large doors are a great convenience in firing, and handles are insulated. Grates are non-jumping.

This boiler is designed for coal firing by hand or stoker or may be equipped with an oil burner. May also be had with an external hot water heater to provide a supply of hot water for laundry, kitchen and bath if desired. Crane Quality throughout, designed to give the maximum heating satisfaction and to assure years of comfort.

CRANE NO. 2 SECTIONAL BOILER

For the large house, or the building requiring a boiler of greater heating capacity than the No. 10 or the 110, the Crane No. 2 Boiler is recommended. Compact in design, highly efficient, this sturdy member of the Crane line of Boilers is highly efficient. The patented Crane water travel actually represents a saving in fuel dollars. The jacket of this boiler is dark green with a baked-on enamel finish. May be had with an attached domestic water heater if desired, and may be used for hand-firing or stoker firing, of coal or with an oil burner.

CRANE OIL BURNING BOILERS

Sustained Heat Boiler Burner Unit

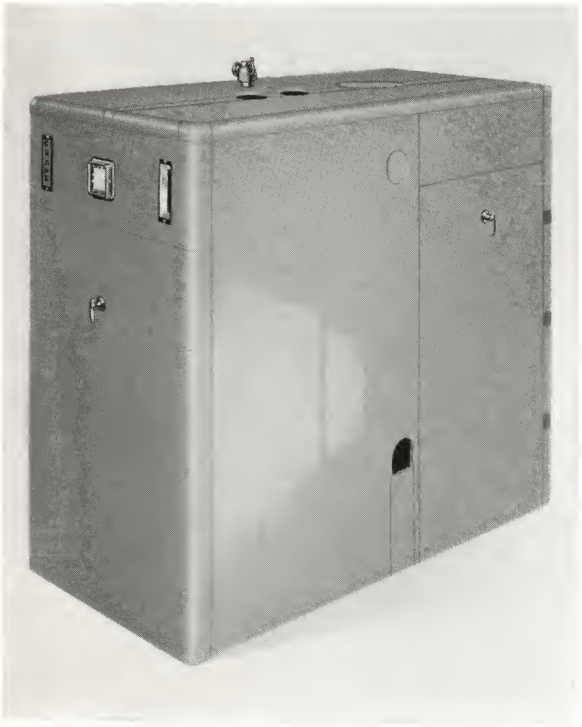
Unhampered by tradition, Crane engineers designed this complete packaged unit to heat the home most economically and efficiently using oil as a fuel.

The Sustained Heat Principle, exclusive with Crane, prevents the escape of heat when the burner shuts off. The trapped hot gases are confined at the top of the boiler and are conducted downward as they cool, released only when their heat has been utilized.

Incorporated in this boiler is the Crane patented baffle which controls water travel forcing it to flow over the heating surfaces countercurrent to the hot gases. This assures the water being heated quickly—efficiently. The Sustained Heat Boiler together with the burner is completely enclosed in an insulated steel jacket which has a heavy green enamel finish baked on. It has an indirect water heater which will provide large quantities of hot water for laundry, bath and kitchen day and night, summer and winter at very low cost.

The Crane Conservoil Burner is concealed beneath the jacket.

Fin-Type Oil Burning Boiler



Luxurious heat—a comfortable, healthful home this winter and for many winters to come, without lifting your finger—this is possible with the Crane Fin-Type Boiler.

The Fin-Type is engineered for efficient and economical burning of oil. The extra long flues, cast with myriad of fins, absorb more heat from the gases—assure a high boiler efficiency.

All sections of the Fin-Type Boiler are machine-ground, assuring a close, tight fit. This prevents escape of gases and the infiltration of air. The back section is curved for added strength.

The handsome metal jacket has a heavy corrugated asbestos insulation keeping the heat inside—assuring a boiler so cool you can keep your hand against it at any time. A built in indirect water heater may be had with the boiler, which supplies ample quantities of hot water at very low cost. This heater may be used summer or winter and is an easy solution to the problem of hot water for laundry, bath and kitchen.

CRANE GAS FIRED BOILERS

Crane Basmor Boiler

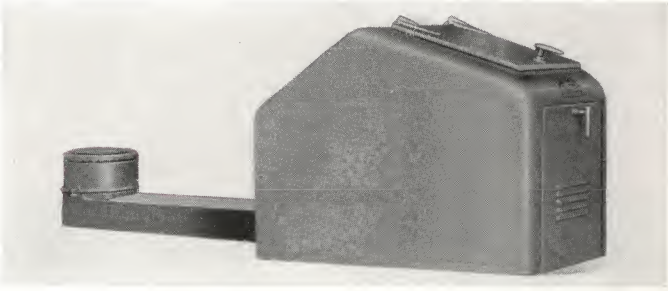
The Crane Basmor Boiler meets every requirement of house heating with either manufactured or natural gas. Safe and trouble-free, its operation is completely automatic, convenient and economical. Crane Basmor controls are designed to protect against every emergency—even against the failure of the controls themselves. High efficiency is attained through Crane Basmor staggered fin construction by which hot gases are thrown backward and forward and sidewise, setting up a swirling or spiral motion that scrubs every square inch of heat-absorbing surface. There are three models in Crane Basmor Boilers—Series 20, Series 25 and Series 40—covering a wide range of heating demands.

TO MAKE YOUR PRESENT SYSTEM AUTOMATIC

Conservoil Burner

The Conservoil Burner presents the latest development in the simple, efficient burning of oil. A specially designed fan and housing keep the air moving at a steady rate of flow and the Conservoil Burner thus assures quiet, steady action. The "floating flame" burns in complete suspension, giving clean operation. The Conservoil presents a host of other desirable features. For example, the blower and air control housing are cast as a single unit to assure perfect alignment and quick, easy interchangeability of parts. Then, too, the design of the burner is extremely simple with only one moving part. The Conservoil is precision made throughout, smartly and attractively finished.

Autocoal Stoker



The Autocoal Stoker will give you the luxury of comfort, convenience, and an even temperature day and night, with freedom from work or worry.

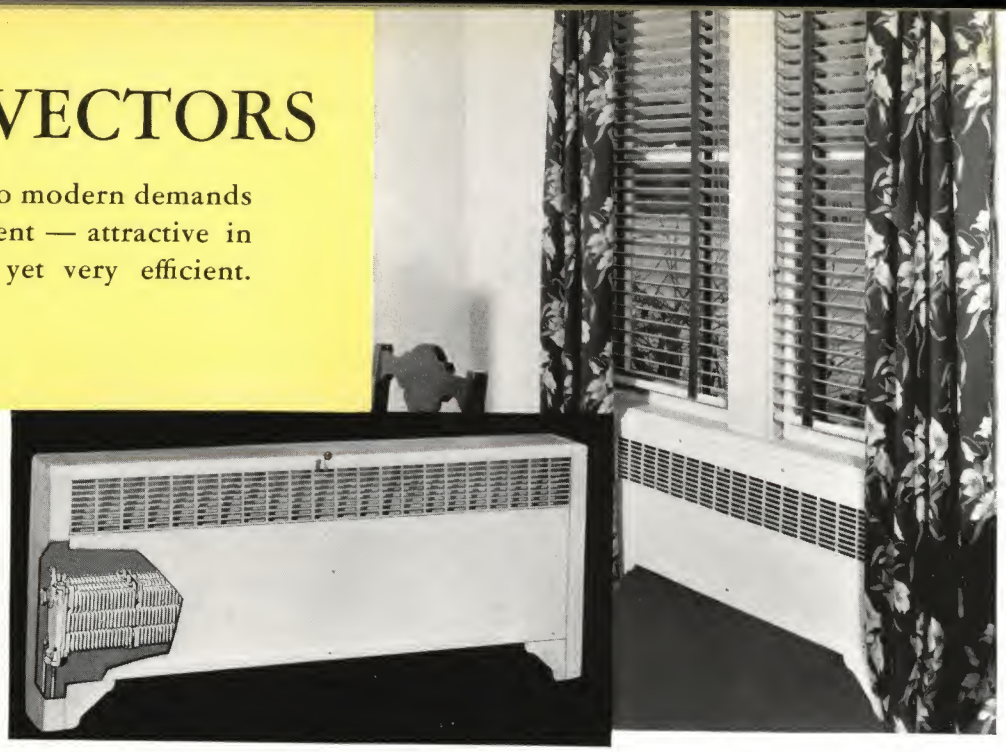
The Autocoal Stoker, by proper combustion, obtains more heat units from the fuel; handles smaller sizes and cheaper grades efficiently; and by keeping temperature even, saves much fuel which would otherwise be wasted in the form of gases and smoke up the chimney.

Because of the principle of forced under-feed firing, combustion is so nearly complete that the smoke nuisance is eliminated, and there is no loose ash.

Because of the great convenience of stoker firing and the money that can be saved on the fuel bills the Autocoal is recommended for every coal burning installation.

CRANE CONVECTORS

Heating Units which conform to modern demands of interior decorative treatment — attractive in appearance, out of the way, yet very efficient.



The most modern, efficient and convenient form of heating is with the NEW Crane Convectors. Concealed in the wall where they are out of the way, Crane Convectors deliver a constant current of heated air into the room, removing the cold air at the same time.

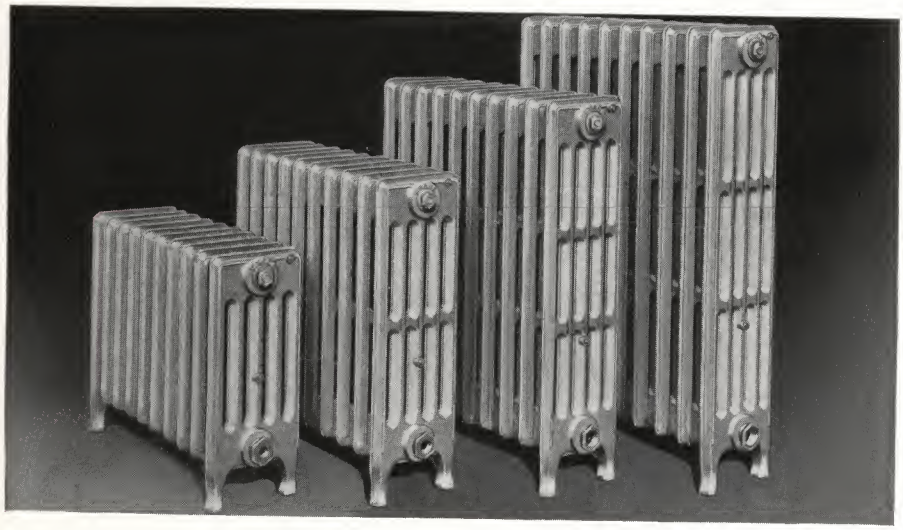
The standard Crane Convector will fit in with any decorative treatment. It has a simple stamped grille that is both neat and attractive.

Crane Convectors are also made with removable grille either of stamped steel or moulded plastic. Plastic grille may be had in a variety of beautiful colors.

The heating element is of cast iron with a multitude of fins, integrally cast. Can be had for steam, vapor, vacuum or hot water systems. Heating elements are 6 inches high and may be had in any length from 13 to 18 inches to 100 inches in steps of 2½ inches. Will fit into any size room or available wall space. These are responsible for the heating efficiency of the whole unit.

CRANE RADIATORS

Crane Radiators assure warmth and comfort from heat delivered by the boiler. Compact and symmetrical, they are designed for beauty and efficiency and are quickly and easily cleaned. The Crane Radiator assembly method assures tight joints, greater economy of space and increased strength. It means longer life and satisfactory service because the tube sections are permanently joined. Made in 2, 3, 4, 5, 6 and 7 tube styles in a wide variety of heights suitable in any installation.



In designing Crane cast iron radiators, consideration was given to the shape of the tubes to provide greater heating surface and increase radiation. Sufficient space was allowed between the tubes to make cleaning easy. The slim columns and clean vertical lines present a well-proportioned symmetry.

Crane direct radiators are made in many styles and sizes—low ones to go under windows, wall and ceiling radiators, special space-saving types for bathrooms, even radiators without legs, if desired. They range from 14 to 38 inches in height and are made two, three, four, five, six or seven tubes wide.

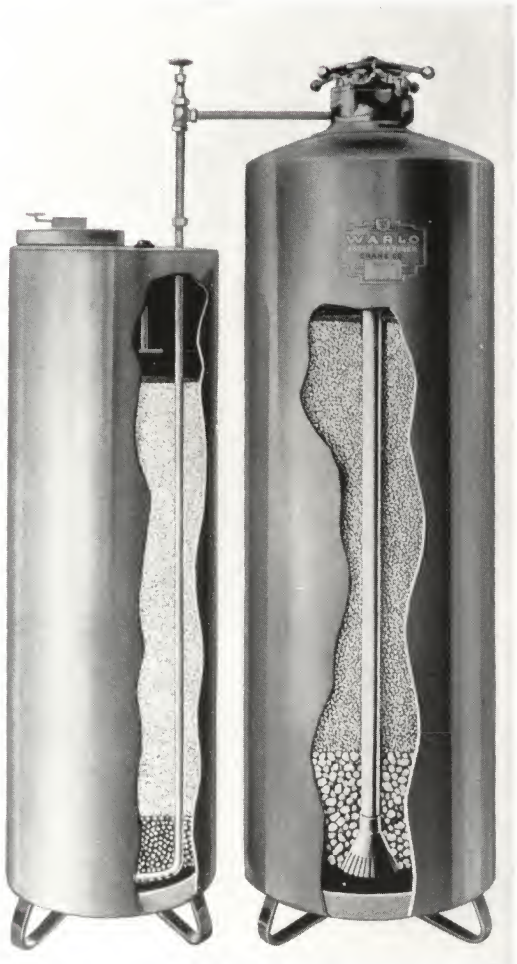
GAS and ELECTRIC WATER HEATERS

Hot water—piping hot—all you want any time night or day—no delay—just turn the faucet—that is a convenience made possible by a Crane Water Heater—either gas or electric.

Steaming hot water helps in dishwashing, aids in the laundry, encourages the habit of cleanliness with the children. An abundant supply saves the annoyance of finding the water running cold just when it is needed most. And when sickness strikes, having hot water available, even in the dead of night is a blessing. A hot shower instantly ready is a luxury made possible with a Crane Water Heater.

Fortunately, the luxury of such hot water service is economical. Crane Water Heaters are more careful of gas or electric bills than you could be. The gas shuts off the instant the water reaches the exact degree determined. It turns on the split-second it is needed. The operation is thrifty, as only a fully automatic, fully insulated water heater could be.

There are styles, prices, and sizes of Crane Water Heaters for every home. Get complete information about them before you decide.



WARLO WATER CONDITIONING

No matter what its source—municipal, private well, river, lake, spring or cistern—several things may be wrong with the water you use. It may be discolored, it may have a disagreeable taste or odor, it may be hard, corrosive or actually dirty. In TODAY'S home, people have automatic heat—they have conditioned air—but the problem of water and its quality is equally important.

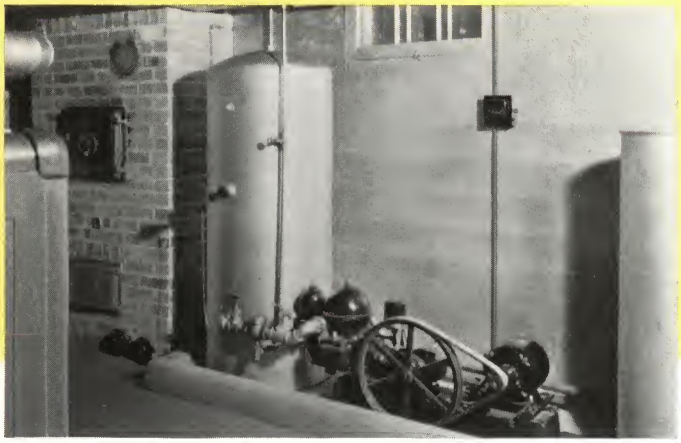
A few facts worth considering are really astonishing: The water used by the average home owner shortens the life of clothes, increases the cost of heating, harms the complexion and even makes vegetables tough and less appetizing.

We will make water analyses without obligation and recommendations will be cheerfully given. Without definite knowledge of your water supply, you may needlessly pay for that mistake for years.

Whatever your problem there is a Warlo unit to fit your needs. All are simple to operate and require a minimum of attention. Be sure to consider well this added convenience that actually pays for itself.

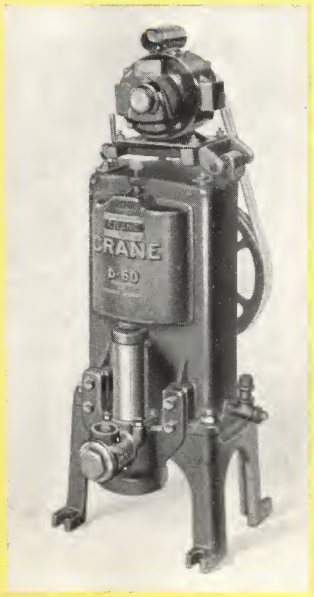
ALL THE WATER YOU NEED

A Plentiful Supply of Water whether Your Home is in Town, Suburb or Country



RUNNING water—lots of it, at the turn of a faucet—is a convenience now considered a necessity to modern civilization. No matter where you are — what your source of supply—spring or lake, deep well or river—a Crane running water system will assure you ample quantities and bring to you all those conveniences running water can give. In rural communities, on farms and in small towns, in summer cottages and filling stations, or resorts, the necessity of running water is obvious—a necessity filled automatically and economically by a Crane pump.

Just as important is the adaptation of Crane pumps to homes in larger communities already supplied with a water system. Here, particularly during the summer months, pressure often falls, and water is difficult to obtain, particularly above the first floor. A Crane booster pump in the basement will not only provide increased quantities of water, but will assure adequate supplies throughout the house on all floors. This service is particularly important in homes of more than one story and in new communities where large-scale building has overtaxed the water supply.



CRANE DEEP WELL PUMPS

Crane Deep Well Pumps assure year-round water supply when the source is a deep well. Newly designed and ruggedly built Crane Deep Well Pumps offer the maximum in service as well as in low cost operation.

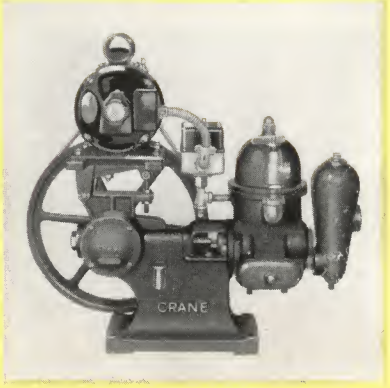
D-60 Pumps and Water Systems pump 170 to 550 gallons per hour.

D-9 Pumps and Water Systems pump 230 to 980 gallons per hour.

CRANE SHALLOW WELL PUMPS

A new pump of modern design, quiet in action possessing high efficiency.

Models *K-250* and *K-375* Pumps and Water Systems for service requiring up to 350 gallons per hour at 40 pounds pressure.



Models *SC-25* and *SC-30* designed for heavy-duty service, requiring a capacity of 330 gallons per hour at 75 pounds pressure.

Models *S-40* and *S-50* Pumps and Water Systems for service requiring a pumping capacity up to 550 gallons per hour at 75 pounds pressure.

CRANE CO.

PRICE GUIDE

"PLUMBING AND HEATING FOR THE MODERN HOME"

CIRCULAR AD-1315 — APRIL, 1939

Prices given below will be helpful in approximating costs, or comparing the cost of one fixture with another. They do not include piping, labor, and other installation costs. For complete price, consult your plumbing or heating contractor.

Fixtures in color can be furnished in a choice of the following Crane colors:

No. 400-A Orchid Pink
No. 405 India Ivory
No. 410 Citrus Yellow
No. 415-A Pale Jade
No. 425-A Lucerne Blue
No. 450 Black
No. 485 Persian Red
No. 495 Sun Tan

(Page 5)	Size	White	Color
C 3225-V95 *Neuvogue* Bath (less curtain)	5′	$102.30	$120.25
	5½′	109.70	130.00
For Acid-resisting Enamel, Add	5′	6.75	.....
	5½′	7.65	.....
C 3190-V95 *Neuvogue Receptor* Bath (less curtain)	4′	112.90	130.40
For Acid-resisting Enamel, Add	.....	8.75	.....
C 10381 *Neuvogue* Closet	.....	105.80	148.80
C 128 *Neuvogue* Lavatory	27x22″	94.35	109.70

(Page 7)	Size	White	Color
C 3285-C27 *Coronova* Bath	4½′	59.95	75.60
	5′	59.95	75.60
	5½′	65.95	83.60
	6′	99.95	121.65
For Acid-resisting Enamel, Add	4½′	5.90	.....
	5′	5.90	.....
	5½′	6.65	.....
	6′	10.90	.....
C 3190-C93 *Neuvogue Receptor* Bath (less curtain)	4′	91.55	109.05
For Acid-resisting Enamel, Add	.....	8.75	.....
C 3225-B27 *Neuvogue* Bath	5′	66.95	84.90
	5½′	73.90	94.15
For Acid-resisting Enamel, Add	5′	6.75	.....
	5½′	7.65	.....
C 129-L13 *Diana* Lavatory	24x20″	54.45	64.30
	27x21″	63.90	78.45
C 167 *Drexel* Lavatory	20x18″	49.80	62.65
	27x21″	61.55	81.50
For *Securo* Waste, Add	.....	2.30	.....
C 154-WM11 *Norwich* Lavatory	20x18″	40.45	47.15
	24x21″	46.00	56.05
	27x22″	54.05	68.95
C 11000 *Merit* Closet	.....	30.75	45.25
C 11004 *Hanover* Closet	.....	26.00	39.00

(Page 8)	Size	White	Color
C 281 *Coronet* Lavatory	24x20″	58.90	71.40
C 259 *Norwich* Lavatory	24x21″	42.65	57.95
	27x22″	50.70	70.80
C 1991 *Coronado-Lavinet*	24x20″	40.40	42.30
C 1223 *Dentrix* Lavatory	12x12″	22.55	29.20
C 1213 *Corwith* Dental Lavatory	16x15″	33.90	44.20
C 10490 *Manor* Closet	.....	48.40	71.80
C 11145 *Neuton* Closet	.....	18.40	.....

(Page 9)	Size	White	Color
C 1995 *Corwith* Lavatory	24x20″	$37.90	$ 41.45
	27x22″	48.45	55.50
C 2504 *Neuday* Cabinet Lavatory	19x17″	32.50	34.80
	24x18″	37.00	41.00
C 3336-C27 *Tarnia* Bath	5′	50.95	63.55
	5½′	57.20	71.80
	6′	75.60	91.25
	5½′x36″	101.75	111.55
C 3370-C27 *Verna* Bath	4½′	49.35	.....
	5′	52.50	.....
	5½′	57.80	.....
C 26892 Cabinet	18x26″	37.40	.....
C 25117 Grab Bar	18″	4.05	.....
	24″	4.65	.....
	36″	5.75	.....
C 24984 Recess Paper Holder	6x6″	1.65	2.70
C 24973 Recess Soap Dish with Grab Bar	6x6″	2.15	3.20

(Page 10)	Size	White	Color
C 174 *Cromwell* Lavatory	26x14″	44.00	56.40
C 180-E12 *Sterling* Lavatory	20x18″	44.75	56.00
	24x21″	46.65	59.00
C 654 *Hermitage* Lavatory	20x13″	27.00	35.30
	26x13″	29.70	39.60
C 10384 *Siwelclo* Closet	.....	60.45	84.05
C 11125 *Neuton* Closet	.....	23.50	37.65

SHOWERS (Page 11)	Size	Chromium Plated
C 4364-B Mixing Valve	½″	$ 19.90
C 4272 Twin Valve	½″	8.75
C 4420-BA Thermostatic	½″	116.70
C 4871-B *Economy* Shower Head	.....	1.80
C 4875-B *Refreshor* Shower Head	.....	2.20
C 4712 Compartment (Regularly finished in White)	30x76″	*70.00
	32x76″	*83.50
	36x76″	*88.50
Corner Entrance Type	36x76″	*97.50
For Color, Add	.....	5.00
***F.O.B. Elkhart, Ind.**		
C 5090 *Rubberceptor*	36x36″	39.50
Aluminum Finishing Strips where necessary, Set of 4	.....	3.00

All prices subject to change without notice

KITCHEN SINKS (Page 16)	Size	White	Color
Cabinets regularly furnished in White or Ivory			
C 19070 *Kitchen Queen*	72x25″	$155.00	$165.00
C 19071 *Kitchen Queen*	72x25″	157.50	168.00
C 19073 *Kitchen Queen*	72x25″	160.00	171.00
For Colored Cabinet, Add			6.25
C 19083 *Kitchen Pride*	38x25″	78.40	83.40
For Colored Cabinet, Add			3.75
If with Flush Front Cabinet, Deduct		12.50	
(Page 17)			
C 19150 *Sunnyday*	60x25″	105.00	113.45
C 19151 *Sunnyday*	60x25″	107.50	116.45
C 19153 *Sunnyday*	60x25″	110.00	119.45
For 54″ *Sunnyday*, Deduct		12.25	13.75
C 19158 *Homemaker*	42x25″	65.60	70.35
	52x25″	76.50	82.80
C 19161 *Homemaker*	42x25″	68.10	73.30
	52x25″	79.00	85.75

KITCHEN SINKS and LAUNDRY TUBS (Page 18)	Size	White		Color
		Regular Enamel	Acid-Resist.	Acid-Resist.
C 19179 *Corland*	42x22″	.....	$39.15	$44.70
	52x24″	.....	48.15	55.40
C 19184 Double Drainboard Apron	60x20″	$40.35	42.75	50.80
	74x20″	60.00	66.40	72.75
	60x22″	42.20	44.70	53.20
	74x22″	60.75	67.20	73.65
C 19230 With Cabinet	42x20″	42.45	43.65	47.65
	52x20″	52.70	54.30	60.00
C 19356 Two Compartment	32x20″	20.90	22.15	26.30
	42x20″	27.30	29.00	34.90
C 19228 Double Drainboard Roll Rim	60x22″	38.50	40.70	48.30

LAUNDRY TUBS	Size	White
C 21129 *Everbrite*	40x27″	$ 47.25
C 21179 *Everbrite*, 3-part	24x24″	74.90
C 21253 Enameled, 2-part	24x20″	30.05
	24x22″	34.05
	25x25″	51.80
C 21294 Composition, 2-compartment	48x24″	*12.50

*F.O.B. Chicago, Ill.

CRANE HEATING EQUIPMENT

(Pages 19 to 25)

For Prices on *Crane* Boilers, Oil Burners, Stokers, Automatic Controls, Radiators and Water Heaters, Refer to your *Crane* Plumbing or Heating Contractor.

Crane Co. is in a position to furnish any type of Heating Equipment. Representatives are available at all *Crane* Branches, who will be pleased to discuss and recommend the proper type of Heating Equipment for your Home. Take advantage of this opportunity to avail yourselves of *Crane Service* at no cost to you.

CRANE WARLO WATER CONDITIONING

Crane Co. is in a position to furnish Water Conditioning Equipment for the removal of hardness, iron, acid or alkaline, dirt or bad taste and odor as well as neutralizers to inhibit corrosion of water distributing systems. *Crane Co.* Representatives are available at all Branches who will be pleased to inform you as to the proper water conditioning equipment necessary in your particular location. Take advantage of this opportunity to avail yourselves of *Crane Service* at no cost to you.

CRANE PUMPS AND WATER SYSTEMS (Page 26)	
Shallow Well Water Systems, complete with 42 gal. Storage Tank, Electric Motor, Relief Valve, Pressure Switch and Fittings:	
K250-A	* $67.00
K375-A	* 71.50
S80-A	* 167.50
S100-A	* 180.50
Deep Well Pumping Systems, complete with 42 gal. Tank.	
D-60-A	* 125.00
D- 9-A	* 218.50

*F.O.B. Chicago, Ill.

CRANE CO.

VALVES, FITTINGS, FABRICATED PIPE, HEATING AND PLUMBING MATERIAL

GENERAL OFFICE

836 S. Michigan Avenue, Chicago

MANUFACTURING PLANTS

Chicago • Bridgeport • North Tonawanda, N. Y. • Chattanooga • Trenton

(See next page for nearest Crane display room)

All prices subject to change without notice

pounds pressure.

AN INVITATION

To simplify the selection of plumbing and heating products for your new home Crane Co. cordially invites you to visit its display rooms. Here you will find the latest fixtures, attractively displayed, and representatives in attendance who will be pleased to advise you. Ask your architect or your contractor to take you to the nearest Crane display room in any of the following cities:

ALABAMA
BIRMINGHAM ..... 2000—5th Ave.
MOBILE ..... 300 N. Royal St.
MONTGOMERY (Teague Hardware Co.) ..... 132 Commerce St.

ARIZONA
PHOENIX ..... 233 S. First Ave.
TUCSON ..... 35 Toole Ave.

ARKANSAS
FT. SMITH ..... 221 S. Ninth St.
LITTLE ROCK ..... 515 E. Second St.

CALIFORNIA
FRESNO (Barrett Hicks Wholesale Sup. Co.) ..... 1027 Broadway St.
HOLLYWOOD ..... 950 N. Highland Ave.
LONG BEACH ..... 824 W. Anaheim St.
LOS ANGELES ..... 321 E. Third St.
OAKLAND ..... 346 Ninth St.
PASADENA ..... 321 South Broadway
SACRAMENTO ..... 1227 Front St.
SALINAS (Standard Supply Co.) ..... 110 South "E" St.
SAN BERNARDINO ..... 1138 India St.
SAN DIEGO ..... 301 Brannan St.
SAN FRANCISCO ..... 919 Poinsettia St.
SANTA ANA ..... 136 State St.
SANTA BARBARA

COLORADO
DENVER (Crane-O'Fallon Co.) ..... 1631 Fifteenth St.
GRAND JUNCTION (Crane-O'Fallon Co.) ..... 601 Pitkin Ave.
PUEBLO (Crane-O'Fallon Co.) ..... 216 W. Third St.

CONNECTICUT
BRIDGEPORT ..... 302 John St.
HARTFORD ..... 710 Windsor St.
NEW HAVEN ..... 365 Orchard St.

DELAWARE
WILMINGTON (Desco Corporation) ..... 211 Shipley St.

DISTRICT OF COLUMBIA
WASHINGTON ..... 1018 Connecticut Ave.

FLORIDA
JACKSONVILLE ..... 1007 W. Bay St.
MIAMI ..... 85 N. W. Tenth St.
MIAMI BEACH ..... 1030 Lincoln Road
PANAMA CITY (Panama Machine & Supply Co.)
TAMPA ..... 1405 Twiggs St.
WEST PALM BEACH ..... 601 Lantana Ave.

GEORGIA
ATLANTA ..... Washington St. Viaduct
AUGUSTA (H. C. Tennent Supply Co.) ..... 1251 Broad St.
COLUMBUS (Columbus Iron Works) ..... 901 Front St.
MACON ..... 500 Broadway
SAVANNAH ..... 14 W. Broad St.

IDAHO
BOISE ..... 415 S. Eighth St.
POCATELLO ..... 756 S. First Ave.

ILLINOIS
AURORA ..... 544 S. Lake St.
CHICAGO ..... 836 S. Michigan Ave.
EVANSTON ..... 1224 Emerson St.
JACKSONVILLE (Jacksonville Supply Co., Inc.) ..... 607-611 E. State St.
PEORIA (Connor Co.) ..... 205-211 S. Water St.
ROCKFORD ..... 800 S. Main St.
SPRINGFIELD ..... 921 E. Monroe St.
WAUKEGAN ..... 1219 Glen Rock Ave.

INDIANA
EAST CHICAGO ..... 1004 Chicago Ave.
EVANSVILLE ..... 118 S. E. Eighth St.
INDIANAPOLIS ..... 333 W. Market St.
MUNCIE ..... 610 S. Jefferson St.
SOUTH BEND ..... 1616 S. Franklin St.
TERRE HAUTE ..... 209 North Ninth St.

IOWA
DAVENPORT ..... 217 E. Second St.
DES MOINES (L. H. Kurtz Co.) ..... 312-314 Walnut St.
DUBUQUE (Kretschmer-Tredway Co.) ..... 9th & Washington Sts.
MASON CITY ..... 19 Eighth St., S. E.
SIOUX CITY ..... 223 Jackson St.

KANSAS
LEAVENWORTH (Tholen Bros. Supply Co.) ..... 304-312 Shawnee St.
WICHITA ..... 624 E. First St.

KENTUCKY
ASHLAND (Ben Williamson & Co., Inc.) ..... 1539 Greenup St.
LEXINGTON ..... 375 E. Main St.
LEXINGTON (Brock-McVey Co., Inc.) ..... Shreve & Vine Sts.
LOUISVILLE (Laib & Co.) ..... 754 S. First St.
PADUCAH (Henry A. Petter Supply Co.) ..... 117-119 S. First St.

LOUISIANA
BATON ROUGE (Levingston Supply Co.) ..... 1449 Florida St.
NEW ORLEANS ..... 146 Baronne St.
SHREVEPORT ..... 1320 Winston St.

MAINE
PORTLAND ..... 70 St. John St.

MARYLAND
BALTIMORE ..... 17 W. Franklin St.
CUMBERLAND (Tri State Mine & Mill Sup. Co.) ..... 310 Commerce St.

MASSACHUSETTS
BOSTON ..... 48 W. First St., South Boston
PITTSFIELD (Pittsfield Mill & Plbg. Supply Co.) ..... 81 Clapp Ave.
SPRINGFIELD ..... 60 Cypress St.
WORCESTER ..... 45 Green St.

MEXICO
MONTERREY (Nicolas Brandi)
MEXICO D. F. (Cia. Electrica de Mexico)

MICHIGAN
DETROIT ..... 150 Randolph St.
FLINT ..... 155 Lewis St.
GRAND RAPIDS ..... 56 Grandville Ave., S. W.
JACKSON ..... 409 Hupp Ave.
KALAMAZOO (Bond Supply Co.) ..... 249 N. Rose St.
MUSKEGON (J. J. Howden Co.) ..... 370-374 W. Western Ave.

MINNESOTA
DULUTH ..... 102 Lake Ave., S.
MANKATO ..... 510 S. Pike St.
MINNEAPOLIS ..... 400 Third Ave., N.
MINNEAPOLIS (Goodin Co.) ..... 707 N. Third Ave.
ST. PAUL ..... 356 Broadway

MISSISSIPPI
HATTIESBURG (P. S. Supply Co.) ..... 404-406 E. Pine St.
JACKSON ..... 176 N. Gallatin St.
MERIDIAN (General Supply & Machine Co.) ..... 208 19th Ave.

MISSOURI
KANSAS CITY ..... 1532 Grand Ave.
KIRKSVILLE (Kirksville Plumbing Supply Co.) ..... 406 W. Harrison St.
ST. LOUIS ..... 30 S. Sixteenth St.

MONTANA
BILLINGS ..... 30th St. and First Ave., S.
GREAT FALLS ..... Great Northern Ry. Yards

NEBRASKA
GRAND ISLAND ..... 115 E. Front St.
LINCOLN ..... 317 S. Ninth St.
OMAHA ..... 309 S. Nineteenth St.

NEVADA
RENO ..... 401 E. Fourth St.

NEW HAMPSHIRE
LACONIA (Laconia Plbg. & Htg. Supply Co.) ..... 77 New Salem St.

NEW JERSEY
ATLANTIC CITY (National Exhibit Rooms) ..... 2401 Boardwalk
CAMDEN ..... 134 Federal St.
NEWARK ..... 90 South St.
TRENTON ..... 50 Escher St.

NEW MEXICO
ALBUQUERQUE (Crane-O'Fallon Co.) ..... 612 N. First St.

NEW YORK
ALBANY ..... North Broadway
BINGHAMTON ..... 21 Washington St.
BUFFALO ..... 201 Church St.
HEMPSTEAD ..... 209 Main St.
NEW YORK ..... 279 Madison Ave.
ROCHESTER ..... 200 South Ave.
SYRACUSE ..... 760 W. Genesee St.
UTICA ..... 326 Broad St.
WHITE PLAINS ..... 41 Hamilton Ave.

NORTH CAROLINA
ASHEVILLE ..... 34 Battery Park Pl.
CHARLOTTE ..... 1307 W. Morehead St.
GREENSBORO ..... 205 Lyndon St.
WILMINGTON (Longley Plbg. Supply Co.) ..... 206-208 S. Front St.

NORTH DAKOTA
FARGO ..... 636 Northern Pacific Ave.

OHIO
CANTON ..... 210 Piedmont Ave., S. E.
CINCINNATI ..... 824 Broadway
CLEVELAND ..... 6215 Carnegie Ave.
COLUMBUS ..... 67 N. Front St.
LIMA ..... 207 S. Central Ave.
TOLEDO (Federal Pipe & Supply Co.) ..... Shepard, Jackson & 11th Sts.

OKLAHOMA
MUSKOGEE ..... 302 Commercial St.
OKLAHOMA CITY ..... 705 W. Main St.
TULSA ..... 623 E. Third St.

OREGON
PORTLAND ..... 1103 S. W. Alder St.
PORTLAND (Peerless-Pacific Co.) ..... 308-14 Front Ave., S. W.

PENNSYLVANIA
ALLENTOWN (Hertz Supply Co.) ..... 1210-1214 Turner St.
CHESTER (Desco Corporation) ..... 2nd & Welsh Sts.
ERIE (Erie Concrete & Steel Supply Co.) ..... 1301 Cranberry St.
LANCASTER (Herr & Co., Inc.) ..... Prince & Chestnut Sts.
NEW CASTLE (Lawrence Supply Co.) ..... 19 W. Lawrence St.
PHILADELPHIA ..... 1301 Locust St.
PITTSBURGH ..... Gulf Oil Building, Grant & 7th Sts.
PITTSBURGH (Malone Plumbing Supply Co.) ..... 21st and Wharton Sts.
READING ..... 212 S. Eighth St.
UNIONTOWN (S. E. Williams Supply Co.) ..... 104 W. Peter St.
WILLIAMSPORT (Hoff Wilkinson Co.) ..... 434 Court St.
WILKES-BARRE (Luzerne Lackawanna Supply Co.) ..... 20 N. Pennsylvania Ave.
YORK (Careva Company Inc.) ..... 545 E. Princess St.

RHODE ISLAND
PROVIDENCE ..... 245 W. Exchange St.

SOUTH CAROLINA
GREENVILLE ..... 223 W. McBee Ave.
GREENWOOD (Greenwood Supply Co.)
SUMTER (Sumter Railway & Mill Supply Co.) ..... 12-24 E. Hampton Ave.

SOUTH DAKOTA
ABERDEEN ..... 324 Railroad Ave., S. E.
SIOUX FALLS ..... 326 E. Eighth St.

TENNESSEE
BRISTOL (Interstate Hardware Co.) ..... 206-10 State St.
CHATTANOOGA ..... Corner 14th & Chestnut
KINGSPORT (Dobyns-Taylor Hardware Co.) ..... 116-120 Broad St.
KNOXVILLE ..... 523 W. Jackson Ave.
MEMPHIS ..... 254 Court Ave.
NASHVILLE ..... 532 Eighth Ave., S.

TEXAS
AMARILLO (Morrison Supply Co.)
AUSTIN (Donnelly-White Co.) ..... 309 Lavaca St.
BEAUMONT ..... 720 Fannin St.
CORPUS CHRISTI ..... 1212 Gavilan St.
DALLAS ..... 814 Young St.
DENISON (Chris Waltz) ..... 201-203 W. Woodard St.
EL PASO (Crane-O'Fallon Co.) ..... 1609 Texas St.
FT. WORTH (Morrison Supply Co.)
HARLINGEN ..... 201 West "C" St.
HOUSTON ..... 2205 McKinney Ave.
SAN ANTONIO ..... 1200 E. Houston St.
SWEETWATER (Morrison Supply Co.)
WICHITA FALLS (Morrison Supply Co.)

UTAH
OGDEN ..... Twentieth St. and Wall Ave.
SALT LAKE CITY ..... 307 W. Second St., South

VIRGINIA
NORFOLK ..... 2 E. Twenty-second St.
RICHMOND ..... 1223 W. Broad St.

WASHINGTON
SEATTLE ..... 419 Second Ave., S.
SEATTLE (F. G. Foster Co.) ..... 819-27 Simpson St.
SPOKANE ..... S. 126 Post St.
TACOMA ..... 1209 South "A" St.

WEST VIRGINIA
BECKLEY (Raleigh Hardware Co.)
BLUEFIELD (Superior Sterling Co.) ..... 200 Bluefield Ave.
CHARLESTON ..... 502 Broad St.
FAIRMONT (Fairmont Supply Co.) ..... 10th St. and Beltline Siding
HUNTINGTON (Emmons-Hawkins Hardware Co.) ..... 1028-1032 Third Ave.
WHEELING (Wheeling Machine Products Co.) ..... 20th and Main Sts.

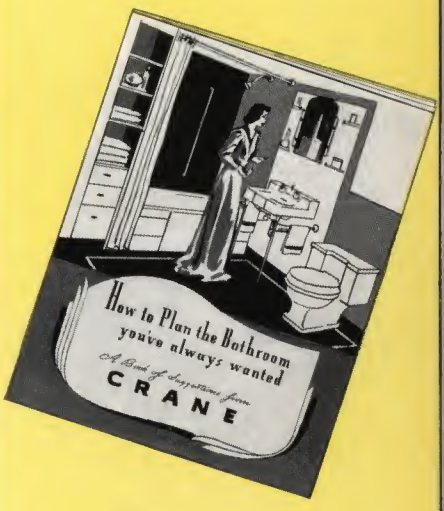
WISCONSIN
MADISON ..... 641 Williamson St.
MILWAUKEE ..... 225 W. Capitol Drive
OSHKOSH ..... 37 Market St.
RACINE (Thomas Supply Co.) ..... 1430-9th St.

WYOMING
CASPER (Crane-O'Fallon Co.) ..... 802 East "C" St.

pounds pressure.

These Books on Plumbing and Heating Will Help You Plan Your House

HOW TO PLAN YOUR BATHROOM



IF you are interested in planning a bathroom, here is a book full of practical suggestions designed to help you. It shows how you can make the most of the space you have available and how you can secure almost double service from your bathroom facilities.

This planning book also offers you suggestions on fixture arrangement, ideas on decorations and color harmonies that will help you plan your bathroom.

Your Architect and Plumbing Contractor will find Crane's Bathroom Planning Service of assistance to them in helping you have the bathroom you want.

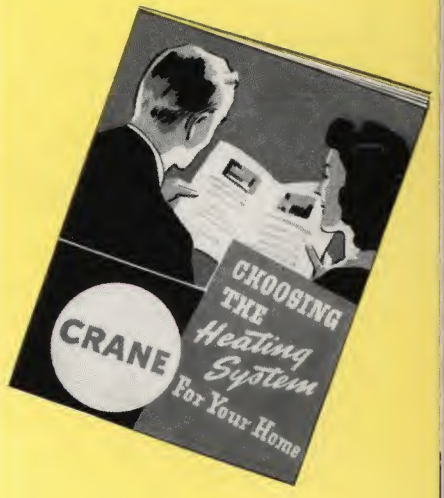
Ask your nearest Crane Branch or write Crane Co., Chicago.

FAMILY PLANNED KITCHENS

A scientifically planned kitchen is a wonderful step saver in any home; and with the help of the Crane planning service and the assistance of your architect and plumbing contractor it will be a simple matter to make yours a modern, efficient kitchen.

But today's demand for maximum utilization of every available square inch of space often means that the kitchen should provide room for other functions besides those of cooking and serving meals. Perhaps, you want to eat in your kitchen or you may want a convenient place for ironing or for sewing. This book shows you how you can have an efficient, step-saving kitchen and at the same time a kitchen designed to help you to do the things you want. A copy is yours for the asking from your nearest Crane Branch or from Crane Co., Chicago.

CHOOSING THE HEATING SYSTEM



HOT WATER or steam?—one pipe of two?—coal, oil or gas-fired? In planning any heating system there are many questions which must be answered. In this newly published book all types of heating systems are discussed and information given that will enable you to make up your mind as to the one best suited to your needs. See the Crane Branch or address Crane Co., Chicago.

CRANE-EQUIP
FOR SATISFACTION

•

PLUMBING

HEATING

WATER SYSTEMS

WATER CONDITIONING

AIR CONDITIONING

CRANE CO., 836 S. MICHIGAN AVE., CHICAGO

CRANE

AD-1315 PRINTED IN U.S.A. 4-39-125

DONLEY DEVICES

FOR HOME OWNER AND BUILDER

THE DONLEY BROTHERS CO. • CLEVELAND • OHIO

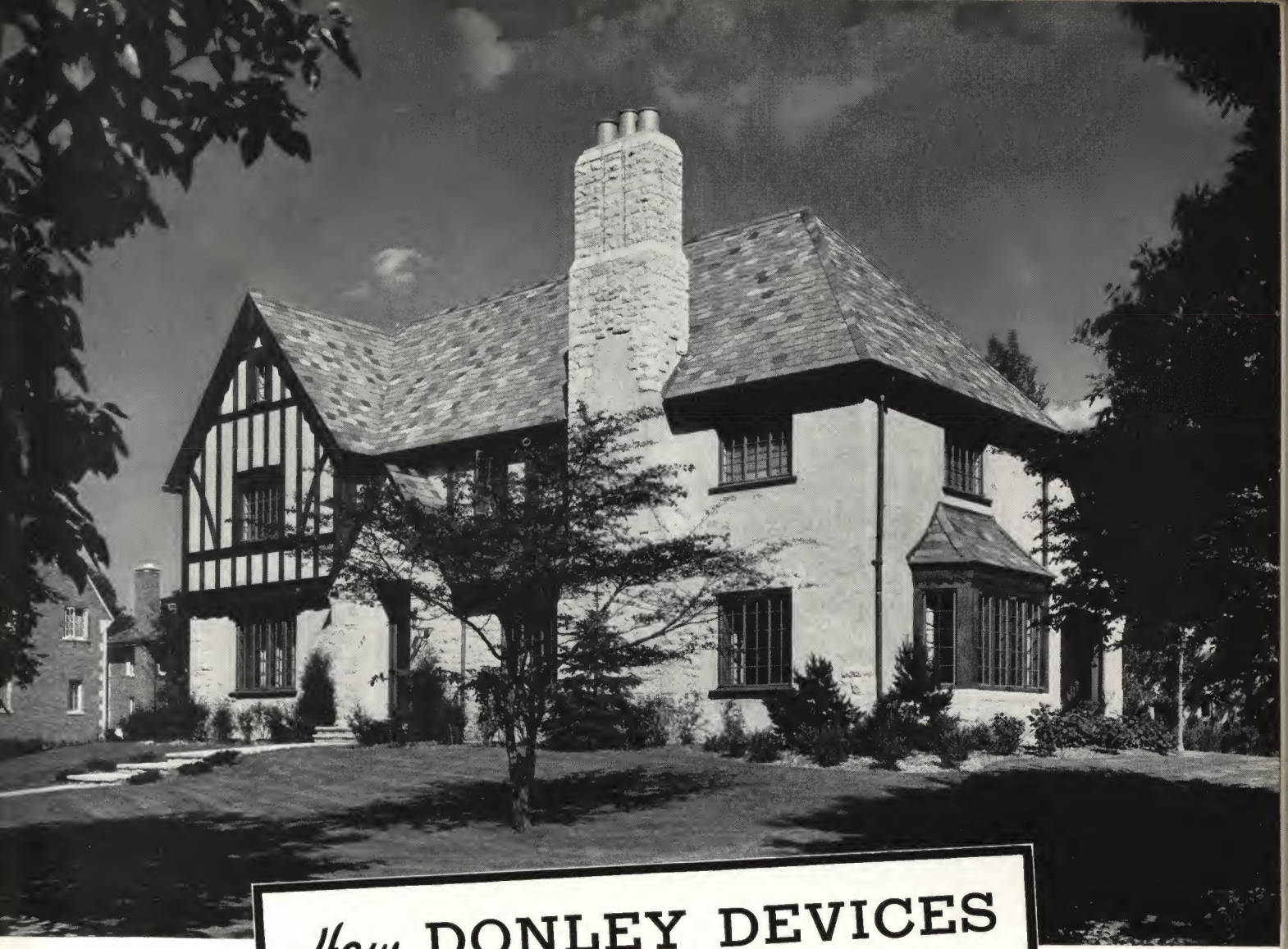
21ST EDITION MAY 1939

INDEX

	Page
Access Doors	29
Andirons	18
Angles, Steel	9
Area Gratings	36
Area Wall, Steel	36
Ash Dumps	10
Ashpit Doors	9
Basement Columns	33
Bell Traps	41
Brick Clamps	38
Building Corners, Metal	29
Cabinet Fireplace	16
Caulking Compound	25
Caulking Gun	25
Cistern Covers	40
Clean Out Doors	9
Clothes Posts	33
Coal Chutes	26
Coal Hods	21
Concrete Inserts	43
Cranes, Fireplace	10
Dampers, Fireplace	8
Details and Dimensions of Fireplaces	6
Door Buck Anchors	37
Dutch Oven Doors	10
Fire Baskets	17
Fireplace Dampers	8
Fire Screens	20
Fire Sets	19
Floor Traps	41
Flue Thimbles	36
Garbage Receivers	31
Grade Line Coal Chutes	27
Hearth, Cantilever	10
Heatsaver Fireplace	11
Incinerators	34
Joist Anchors	37
Joist Hangers	37
Laundry Chute Doors	25
Lintels	9
Log Rests	17
Manhole Covers and Frames	40
Manhole Steps	41
Mail Receivers	28
Mortar Boxes	38
Mortar Tubs	38
Outdoor Fireplace Equipment	22
Package Receivers	24
Roof Cement	42
Roof Coating	42
Salamanders	39
Screens, Fireplace	20
Screens for Donley Windows	33
Septic Tanks	30
Sewer Pipe Strainers	41
Slop Sinks	41
Stanchions	33
Stone Anchors	37
Thresholds	29
Utility Window	32
Ventilators	42
Wall Plate Anchors	37
Wall Plugs	33
Wall Ties	33
Waterproofing	42
Wheel Guards	39
Windows, Basement	32
Wood Carriers	21

Copyright, 1939, The Donley Brothers Co.

Printed in U.S.A



How DONLEY DEVICES *make your home more convenient and comfortable*

A dream home is visioned as comfortable, liveable and suited to the owner's needs. You want those qualities at a cost within your means. You want *your* home cozy and convenient—a pleasure for years to come. Then for maximum happiness, plan to simplify the necessary household duties, eliminate the needless tasks and save countless steps. Such planning changes homemaking from a chore to a joy. The time and energy thus saved are then available for the pursuit of happiness and a more comfortable living.

Donley Devices help you realize these aims economically. Donley fireplace furnishings and equipment insure a charming, cheery, successful fireplace—a gathering place for the family—an ideal place for friends to meet. The many Donley convenience items are like extra servants in your home—built-in servants that simplify the duties and save time.

Donley Devices help make life worth living, for in truth, "Donley Devices complete the home". These home friends are described and illustrated on the following pages.

1895 - 1939

Guarantee

Every Donley Device is guaranteed to be exactly as described and illustrated.

Every Donley Device is guaranteed to give you the performance and service you have a right to expect.

Any Donley Device that for any reason whatever does not satisfy you, may be returned for credit. We will then be glad to exchange it for exactly what you want, or we will return your money.

Signed

THE DONLEY BROS. CO

1895 - 1939

A Successful Fireplace

The test of a successful fireplace lies in how much the owner is tempted to use it. Properly equipped and properly built, it is a source of constant delight —a cheery gathering place for congenial groups, the center of the family circle. In some homes, however, the fireplace stands cold and unfrequented most of the time, usually a sign that there is something wrong with it. Perhaps it smokes—perhaps it radiates little heat for the fuel consumed—perhaps it lacks facilities for ash removal, making that task a nuisance.

The enjoyment of the finished fireplace is so important, and correcting a faultily built fireplace is so expensive, that it pays to take pains with the original construction. The Donley Brothers Company has devoted much research and experimentation to developing the principles of successful fireplace construction and has made this information available to everyone. Abbreviated directions and principles of construction are given on the next two pages of this book and on the instruction sheet attached to each fireplace damper.

The complete story and full information is presented in the "Donley Book of Successful Fireplaces." It will be sent promptly upon request and is well worth its moderate cost of 25c (in Canada 35c). In addition to a complete explanation of principles, it contains more than 200 pictures of attractive fireplaces and a history of fireplace development. This book also includes pages of suggested Mantel designs, as well as chapters on Dutch Ovens and outdoor fireplaces.

How to Build A Successful Fireplace

Home owners who decide on a fireplace want a free-burning, warmth-producing and non-smoking fireplace. Such a fireplace costs no more than one incorrectly built, yet gives a great deal more enjoyment. A successful fireplace is one that is correctly built. It is assured by following the construction principles given here.

The drawings on the next page, together with the table of dimensions, are valuable in building a successful fireplace. Detailed dimensions are given for 12 typical sizes of fireplaces. These details represent the results of years of experience. If these directions are followed complete satisfaction is assured.

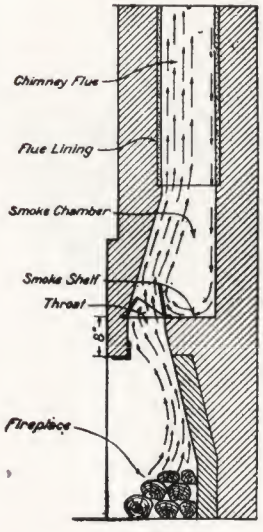


Figure 6. Showing how down-draft is diverted upward from smoke-shelf. This diagram taken from U. S. Government pamphlet.

Size of Fireplace Opening should be appropriate to width of wall and size of room. Good appearance prompts a wider opening if fireplace is located on the long wall of room. One rule is that there be 5 sq. in. of opening for each sq. ft. of floor area.

If flue is already built, the opening must conform to flue size. See table of dimensions on page 7. Also see table and comments on page 14.

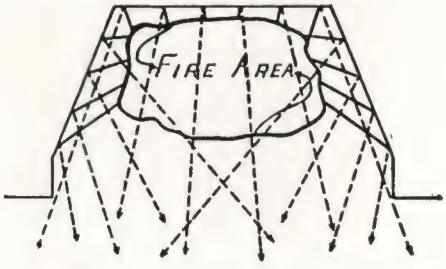
Smoke Shelf as shown in the diagram arrests down draft and with valve plate of damper, as shown, keeps smoke from blowing into the room.

The Damper should be set with the turned-up flange against the front wall and the rear flange resting **on** the smoke shelf. The opening of damper should not be directly under the flue but forward of it. Damper should be 3 to 9″ above the fireplace opening.

The Smoke Chamber is just above the damper, its sides sloping equally at the rate of about 7″ to each foot in height. Smooth, unobstructed walls are best.

A Separate Flue, with size of opening not less than 1/12 the area of the fireplace opening, should be provided for each fireplace. The flue should start at the top of the smoke chamber, directly over the center of it, and rise to a height of not less than three feet above the highest point of the roof. If it is necessary to slant the flue to bring it to its desired place in the chimney stack, the slope should not exceed eight inches per foot of rise.

Areas of Flue Sections. The outside dimensions for standard terra cotta flue linings most used in fireplace work have inside areas as follows: 8½″x8½″ = 52.56 square inches; 8½″x13″ = 80.50 square inches; 13″x13″ = 126.56 square inches; 8½″x18″ = 109.86 square inches; 13″x18″ = 182.84 square inches; 18″x18″ = 248.06 square inches.



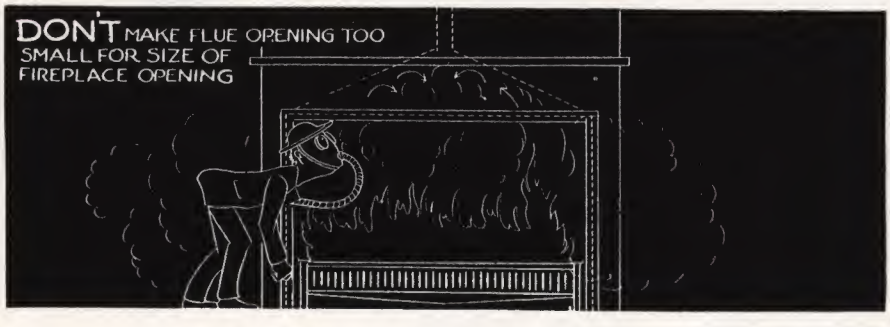
Illustrating heat radiation from fireplace having properly designed side and rear walls

Hearth Shape should be as shown in the plan, its sides going straight back for about 4″, then narrowed at the rate of 5″ for each foot. The importance of this shape is shown in the diagram above which indicates how heat radiated against the walls is reflected out into the room instead of wasted up the chimney.

Rear Wall should be plumb for from 14 to 16″, then sloped forward to form smoke shelf and support the damper. This shape deflects heat forward into the room; smoke and gases pass through the damper.

Advantages of a Cantilever Hearth

The fireplace hearth, including the part within the fireplace and the area in front, should rest on a

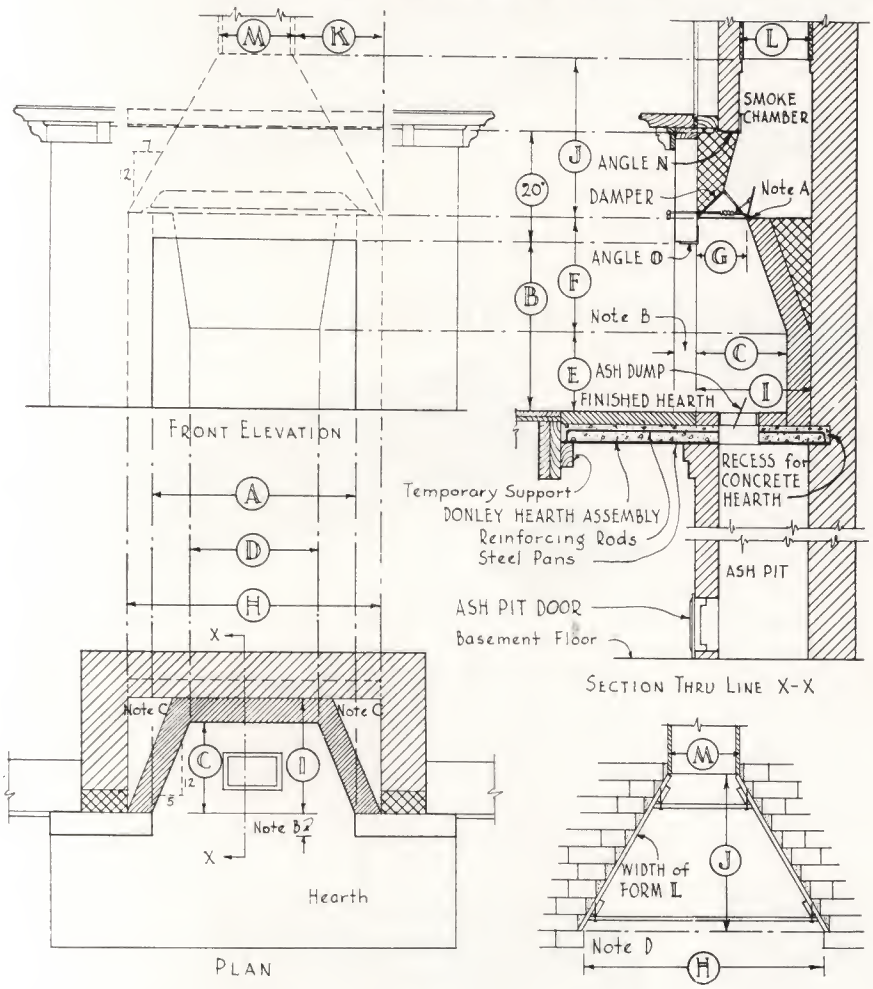


single slab of reinforced concrete. When the slab is supported partly by the chimney stack and partly by the floor structure, settlement strains may result in cracking of the slab and the brick or tile on it.

That is why the Donley Brothers Company suggests a cantilever hearth supported entirely by the chimney masonry.

For convenience in forming this cantilever hearth, the Donley Cantilever Hearth Assembly is offered (see page 10).

Fireplace Plans and Details



Fireplace Details and Dimensions

Different features of a fireplace bear a close relationship to each other so that a disproportion between parts may result in an unsatisfactory fireplace. The drawings at the left show an elevation, plan and cross-sectional view of a correctly designed fireplace and a table of dimensions. The letters at the top of the columns in the table refer to the same letters in the drawings above. Thus it is easy to find all dimensions for any of the 12 typical sizes by using the table and drawings together. Where individual conditions necessitate changes, the experience and advice of Donley engineers is available for the asking.

The starting point of all calculations is the width of fireplace opening when finished. When this has been decided, locate that width in the first column of the table below. The next column gives an appropriate height. Following to the right are the other finished dimensions.

By looking at the plan, the reader will discover that the visible fireplace is encased in walls of rough brickwork. The proper dimensions for the rough brickwork and correct flue size are indicated in the second division of the table. In other parts of the table are listed the equipment to be used. Blank spaces have been left where choice is a matter of personal taste.

Table of Dimensions

DIMENSIONS														EQUIPMENT										
FINISHED FIREPLACE OPENING							ROUGH BRICK WORK							ACCESSORIES							FURNISHINGS			
WIDTH	HEIGHT	DEPTH	BACK	VERTICAL BACK WALL	SLOPED BACK	THROAT	WIDTH	DEPTH	SMOKE CHAMBER	SLOPE of SMOKE CHAMBER	STD. RECTANGULAR FLUE LINING Outside Dimension	STD ROUND FLUE LINING Inside Dia	HEARTH ASSEMBLY	DAMPER Rotary Control	DAMPER Poker Control	ASH DUMP	ASH-PIT DOOR	STEEL ANGLES "A" 3×3×3/16 "B" 4×3×1/4 "C" 5×3½×5/16		FIRE BASKET	FIRE SCREEN	ANDIRONS	FIRE SET
A	B	C	D	E	F	G	H	I	J	K	L M	Φ						LENGTH IN INCHES					
In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.	In × In.	In.	No.	No.	No.	No.	In × In.	N	O	No.	No.	No.	No.
26	24	16	13	14	14	8¾	39	20	24	15	8½ × 8½	10	72	330	230	58	10×12	A 36	A 30	24			
28	28	16	15	14	18	8¾	42	20	25	14½	8½ × 13	10	72	330	230	58	10×12	A 42	A 36	24			
30	30	16	17	14	20	8¾	42	20	25	14½	8½ × 13	10	72	330	230	58	10×12	A 42	A 36	28			
32	28	16	19	14	20	8¾	44	20	26	15½	8½ × 13	10	72	333	233	58	10×12	A 42	A 42	28			
34	30	16	21	14	20	8¾	46	20	28	16½	8½ × 13	12	72	336	236	70	10×12	A 48	A 42	30			
36	30	16	23	14	20	8¾	46	20	28	16½	13 × 13	12	72-84	336	236	70	10×12	A 48	A 42	34			
40	30	16	27	14	20	8¾	50	20	32	18½	13 × 13	12	72-84	342	242	70	10×12	A 48	A 42	34			
42	30	16	29	14	20	8¾	54	20	35	20½	13 × 13	12	84-96	342	242	70	10×12	B 54	A 48	34			
48	33	18	33	14	23	8¾	59	22	40	23	13 × 13	15	96	348	248	70	10×12	B 60	B 54	40			
54	36	20	37	14	26	13	67	24	42	24½	13 × 18	15	96	354	254	70	12×15	B 66	B 60	40			
60	39	22	42	14	29	13	71	26	45	26½	18 × 18	18	96	360	260	70	12×15	B 66	B 66	57			
72	40	22	54	14	30	13	83	26	56	32½	18 × 18	18	Special	372	272	70	12×15	C 80	C 80	57			

NOTES

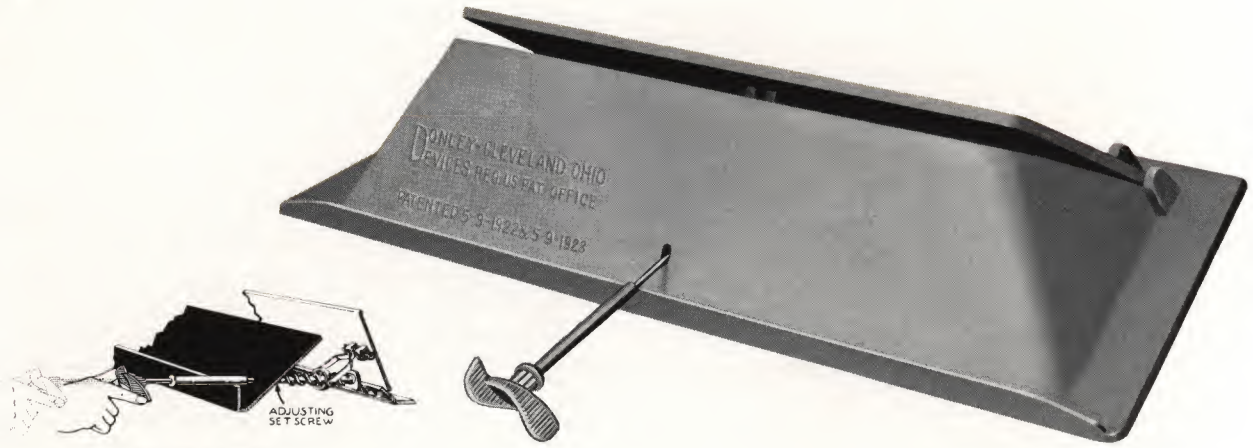
A—The back flange of the damper must be protected from intense heat by being fully supported by the back wall masonry. Damper should not be built in solidly at the ends. It should be left free to expand, as shown in the front elevation view.

B—The drawing indicates thickness of brick fireplace front as four inches. No definite dimension can be given for this because the various materials used, such as marble, stone, tile, etc., have various thicknesses.

C—These hollow spaces should be filled to form solid backing. If desirable to include a fireplace flue in either space, outside dimensions should be increased.

D—A good way to build a smoke chamber is to erect a wooden form consisting of two sloping boards at the sides, held apart by spreaders at the top and bottom and nailed upward into cleats as shown. Letters H, M, J, etc., correspond to letters on elevation above. Form boards should have the same width as flue lining. For those who desire it, we make a steel smoke chamber.

The sectional view above shows a rotary control type of damper. On page 8 both rotary and poker control dampers are illustrated.



Rotary Control
Dotted hand illustrates possible adjustment of rod.

Donley Fireplace Dampers

Because the throat is important in the operation of the fireplace, it is essential that a carefully designed, thoroughly tested Donley Damper be used.

The Donley Damper provides efficient draft control and a smooth, correctly proportioned throat passage for smoke and fumes. Installed according to directions, it promotes correct construction of other details of the fireplace.

Narrow Throat. The Donley Damper has a narrow throat which offers two important advantages. With damper correctly placed against the fireplace front, there is room for the backwall to slope forward enough to reflect maximum heat into the room. Also this narrow throat enables the damper to be set, not under the flue, but forward of it so that down draft is pocketed on the smoke shelf back of the uplifted valve plate.

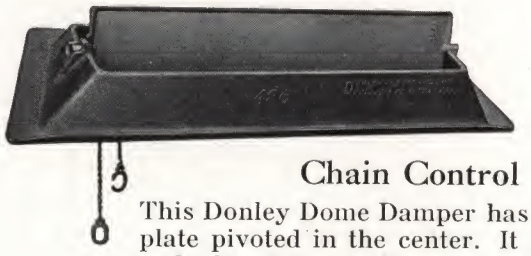
Narrow Front Flange. Notice the strong, narrow front flange on the Donley Damper. This permits the correct forward position of the damper without fitting between masonry courses—a particular advantage where the opening is arched or where facing material is stone, marble or tile.

Choice of Operating Device. The large illustration above is that of the Donley Rotary Control Damper, opened or closed by turning a polished knob at the front of the fireplace. As regularly supplied, this knob is at the center. The damper is also made with the knob located at right of the center. Poker and chain control dampers are described at right.

Made of Cast Iron. The Donley Damper is made from rust-resisting, high grade cast iron, good for years of service, providing dependable draft control and maximum heat with a minimum of fuel required.

Poker Control

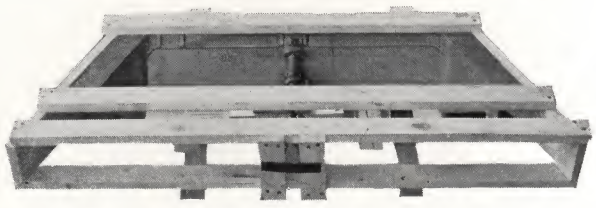
A ring projects downward from the center of this Donley Damper. The **damper is opened** by pulling forward on a poker hooked into this ring. **To close,** lift slightly and push back. This control device is less conspicuous, though less convenient than the rotary control, shown above.



Chain Control

This Donley Dome Damper has the valve plate pivoted in the center. It is opened and closed by pulling one of the two chains that hang at the left. Manufactured to meet an occasional demand, this damper is made in three popular sizes (see table on next page).

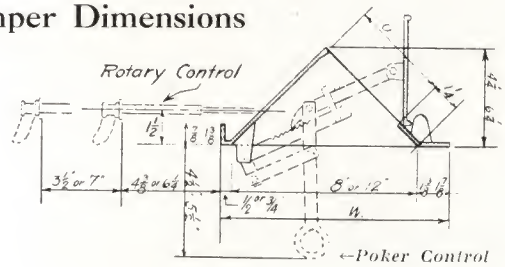
Completely Assembled and Crated

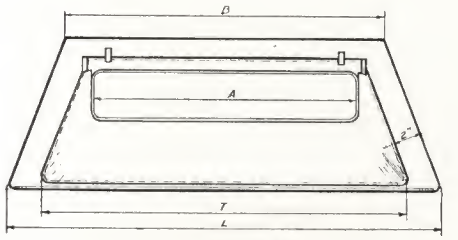


Every Donley Damper comes fully assembled (which saves time), and in a crate that protects

against breakage. Attached to the crate is a copy of the Donley Plan Sheet of Fireplace Construction, giving full details, diagrams and cautions to help in building a successful fireplace.

Damper Dimensions





PLAN

This diagram and table of dimensions help the designer to calculate space required for each damper used. Where two dimensions are indicated on the same line in the diagram, the smaller is for sizes up to and including numbers 248 and 348. Larger dimensions are for numbers 254 or 354 and greater. Both operating devices are shown. For construction details on fireplaces, see diagram and table of dimensions on page 7.

Poker Control No.	Rotary Control No.	Throat			Overall		
		Bot. T	Top A	Opng. O	Lgth. L	Bck B	Wdth W
224	324	24	17 5/16	4¼	28½	21	9⅞
230	330	30	23 5/16	4¼	34½	27	9⅞
233	333	33	26 5/16	4¼	37½	30	9⅞
236	336	36	29 5/16	4¼	40½	33	9⅞
242	342	42	35 5/16	4¼	46½	39	9⅞
248	348	48	41 5/16	4¼	52½	45	9⅞
254	354	54	42½	7	58½	46	14⅝
260	360	60	49½	7	64½	53	14⅝
272	372	72	60½	7	76½	64	14⅝
*284	*384	*84	73½	7	88½	77	14⅝
*296	*396	*96	85¾	7	100½	89	14⅝

*Two Valve Plates.

Type of Damper and Number of Each			For Fireplace Openings With Maximum Width of	Shipping Weight
Poker	Rotary	Chain		
224	324	. . .	24″	27½ lbs.
230	330	430	30″	32 "
233	333	. . .	33″	35 "
236	336	436	36″	38 "
242	342	442	42″	44 "
248	348	. . .	48″	50 "
254	354	. . .	54″	95 "
260	360	. . .	60″	100 "
272	372	. . .	72″	129 "
*284	*384	. . .	84″	150 "
*296	*396	. . .	96″	170 "

*Two Valve Plates.

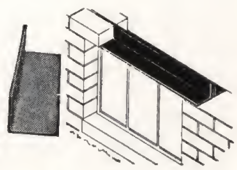
Flat Damper

Donley's Flat Damper (without the throat-forming feature) is also opened and closed with a poker. A sliding shutter gives additional draft adjustment. The Donley Flat Damper is a practical means of draft control when installed by skilled mechanics.

Dimensions of Donley Flat Dampers

No.	Overall Size			Size of Opening	Shipping Weight
	Lgth. Front	Lgth. Back	Wdth		
124	24″	22″	8″	18½″x4¾″	13 lbs.
126	26″	24″	8″	18½″x4¾″	14 "
128	28″	26″	8″	22 ″x4¾″	15½ "
130	30″	28″	8″	22 ″x4¾″	17 "
132	32″	30″	8″	26¾″x4¾″	18½ "
136	36″	34″	8″	27¾″x4¾″	20 "
142	42″	40″	8″	36½″x4¾″	21½ "
148	48″	46″	8″	42½″x4¾″	27 "

Steel Angles



Standard hot rolled Donley Steel Angles conveniently support brickwork over fireplace openings as well as over doors and windows. Strong, inexpensive and painted to resist rust. Table on page 7 gives sizes for use in fireplaces.

Sizes	Lengths, Inches	Shipping Wt., Per Ft.
3x2 x3/16	*30-36-42-48-54	3.07 lbs.
3x3 x3/16	*30-36-42-48-54	3.71 "
4x3 x¼	*30-36-42-48-54-60	5.8 "
4x4 x¼	Cut to order.	6.6 "
5x3½x5/16	" " "	8.7 "
6x4 x⅜	" " "	12.3 "

*Other lengths can be furnished, cut to order.

Ashpit Doors

To empty the ashpit, a tight fitting, sturdy door is required. This door, located at floor level, should be at least large enough to admit the average shovel.

Donley Ashpit Doors in sizes 10″x12″ and larger are particularly fitted to this use—smaller sizes are generally used for flue clean-out doors at the base of chimneys. Doors 7x9 to 12x15 are provided with special anchors which fasten the frame securely to the masonry. All sizes are neat in appearance, tight fitting and have provision for anchoring in the masonry.

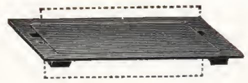
Height-Width	Shipping Weight	Height-Width	Shipping Weight
§6x 8″	48 lbs. doz.	‡24x18″	50 lbs. each
7x 9″	74 " "	30x24″	120 " "
8x 8″	74 " "	*30x24″	70 " "
8x10″	80 " "	†30x30″	175 " "
10x12″	125 " "		
12x15″	160 " "		

(All doors and frames cast iron except as noted.)

§Steel door and frame, slide type. *Steel door, Cast Iron frame. †Double door. ‡Also supplied with baffle plate.

Ash Dumps

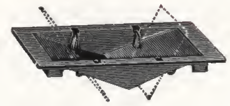
Clean, Easy Disposal



No. 58

No. 70

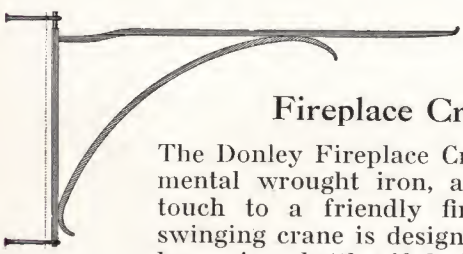
No. 57



Donley Ash Dumps in the floor of the hearth, beneath the fire, permit quick, clean, easy ash disposal. It is only necessary to push cinders and ashes through these ash dumps—they fall to the ashpit below. Numbers 58 and 70, see above, have a single door set flush with the floor and are opened and closed with a poker. Number 57 has two leaves or doors that close automatically after ashes are pushed through. Number 70 is of stronger construction and has deeper flanges for anchoring in the hearth. On all models doors are locked into frames and cannot drop into the ashpit.

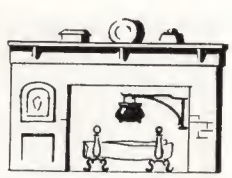
No.	Floor Opening	Depth of Frame	Shipping Weight Per Dozen
57 (2-door)	5 x 7 "	1¾"	25 lbs.
58 (1-door)	5 x 8 "	1½"	32 "
70 (1-door)	*7¼x10¼"	2 "	68 "

*Including lugs on side, 7¾x10¼".



Fireplace Crane

The Donley Fireplace Crane, of ornamental wrought iron, adds a homey touch to a friendly fireplace. This swinging crane is designed to support heavy iron kettles if desired, or it can be used solely for quaintness and charm. Strong anchor bars, furnished with the crane, fit into the masonry in the side wall. Vertical member is so made as to simplify installation and the crane can be removed at any time. An installation instruction tag is supplied with each crane.

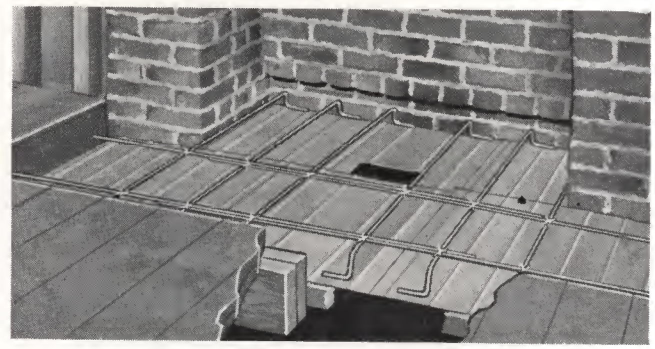


No.	Length of Crane	Width of Fireplace Openings	Between Anchors	Shipping Weight
1	22 "	24" to 31"	14¼"	10 lbs.
2	26½"	32" to 43"	14¼"	12 "
3	32½"	44" to 53"	18¼"	14 "
4	41½"	54" to 72"	21¾"	16 "

Build A Real Dutch Oven

The charming informality of Early American kitchens may be reproduced with the aid of the Donley Crane and this ornamental door of authentic design. Even when not used as a Dutch oven for baking, the space makes a convenient recess for firewood. Or for effect, this door serves as a more ornamental ashpit clean-out door. Made of highest grade cast iron with hinges at left (made with hinges on right on special order). The Dutch Oven Door is regularly finished in art black, but is also available in a plated antique brass finish. Size overall—15"x18" to fit a wall opening 12½"x15½"; shipping weight, 20 pounds.

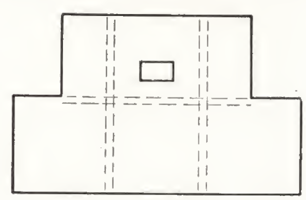
Cantilever Hearth Assembly



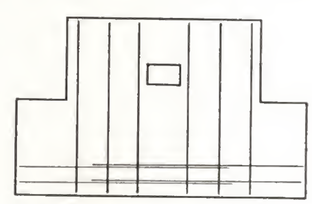
The Cantilever Hearth Assembly makes it easy for the mason to construct a substantial fire-safe hearth slab of concrete, supported entirely by the chimney masonry. Finished hearth surface of tile, brick, etc., is applied over this slab as usual. This Cantilever method of construction prevents hearth cracks which may occur due to uneven settling where support is partly by floor timbers and partly by chimney masonry.

The assembly consists of corrugated steel sheets which are laid on top of the ashpit wall according to sketches below, and reinforcing rods provided with self-supporting offset "feet" which hold them at proper height to reinforce the slab. Concrete is poured over the pans to the required thickness of 3½ inches.

Diagram below at the right indicates maximum size hearth to be constructed from each of the three

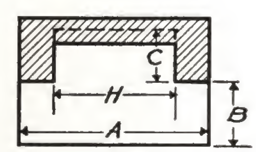


Layout of Pans



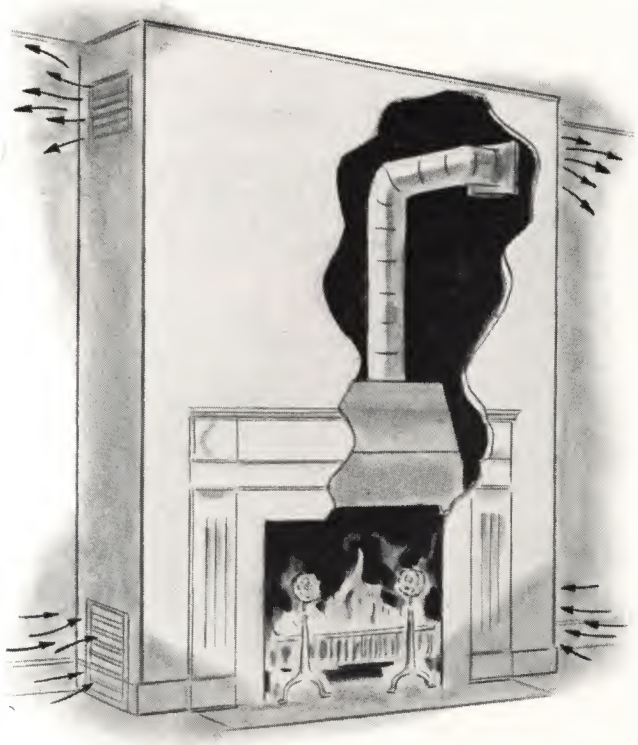
Reinforcement Bars

sizes of assemblies available. Detailed instructions for installing are furnished with each unit.



No.	A	B	H	C
72	72"	24"	48"	24"
84	84"	24"	48"	24"
96	96"	24"	72"	24"

Note—Hatched portion indicates brickwork. Unhatched portion is concrete slab.



Donley Heatsaver Fireplace

Patent No. 2151016

The Donley Heatsaver Fireplace is a distinct improvement in fireplace usefulness and satisfaction. It supplements the radiant heat from the open flames with a generous amount of circulating warm air that reaches every corner of the room. With the use of the Heatsaver, the fireplace becomes a real heating plant, while retaining every feature of homey coziness and good cheer.

The Donley Heatsaver unit is built along the lines of warm air furnace, having a heating chamber surrounding the fire. With a fire burning in the grate, air from the room flows into the heating chamber, becomes heated, then flows out into the room, warm and satisfying. Not only do you have the pleasant glow of an open fire but the luxury of comfortable warmth as well.

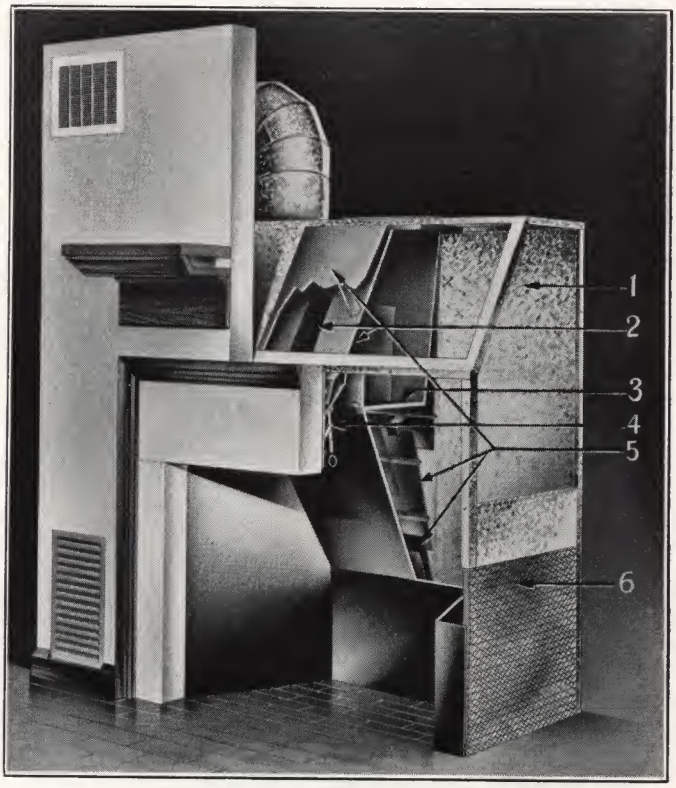
Insures Correct Construction—The Heatsaver has the added advantage of minimizing the risk of an unsatisfactory fireplace. It is complete, including the damper—a correctly proportioned metal unit, which protects the home owner from the errors of inexperienced workmen. The inside of the fireplace is already accurately built. With Heatsaver correctly installed, the home owner can be sure of having a successful fireplace.

As a Main Heating Plant—A cottage needs no other heating plant than this Donley Heatsaver Fireplace. The small investment, together with the cheerfulness of a crackling fire, has induced many owners to specify a Donley Heatsaver when the total heating load was within the Heatsaver range of from 12,900 B.t.u.'s to 39,300 B.t.u.'s per hour.

As an Auxiliary—In the larger home with central heating plant the Donley Heatsaver, as an auxiliary source of heat, carries the heating load for chilly days in spring and fall. At such times it is hardly necessary to build a fire in the furnace. The Heatsaver Fireplace is inexpensive to operate and effectively takes the chill from the house. For the larger homes in mild climates, no furnace is required if Donley Heatsaver Fireplaces are provided.

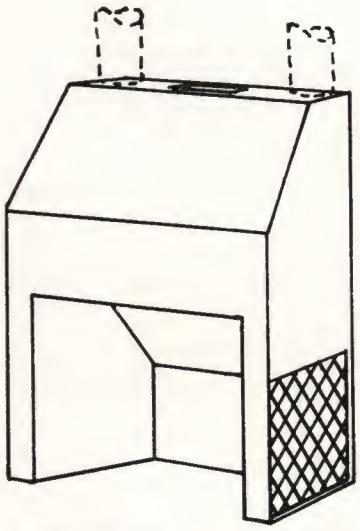
A Cabin Heating Plant—For cabins and summer cottages, use a Heatsaver as the sole source of heat. On chilly evenings you will appreciate its ruddy warmth and friendliness. The heating capacity of this engineered Heatsaver Fireplace will surprise you.

For Churches and Clubs—Many times it is desired to warm only one or two rooms in a church or club building. A committee meeting, organization or board of directors meeting is often called for a time when the rest of the building is not in use. Firing the boiler on the main heating plant is entirely unnecessary if a Heatsaver Fireplace is available. This fireplace easily heats the one or two rooms in an economical way. At the same time its friendly, merry fire makes the gathering a cheerful one.



1—Large warm air chamber. 2—Warm air ducts equalize the heat. 3—Heavy, lasting smoke shelf. 4—Integral damper, poker controlled. 5—Convection sheets keep outer shell at low temperature. 6—Large area, cool air inlet gives freedom in placing of intake grilles.

Installing The Heatsaver Fireplace

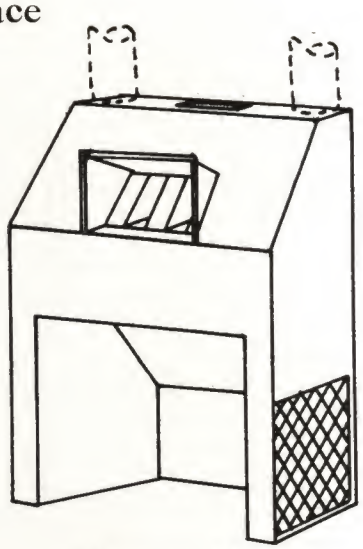


Heating Only One Room

Many installations of the Heatsaver Fireplace are designed for heating only one room—the room in which the fireplace is located. The drawing at the left shows the unit used on this type of installation. The outer casing of the unit is of bright, galvanized steel. Openings are easily cut in this casing for attaching two round furnace pipes leading to the warm air outlet grilles. Grilles may be on the front face of a fireplace that does not project into the room or at the sides of a fireplace that projects out from the wall. The view below shows such an installation. When desired, the unit is built with a center outlet below the mantle, as shown in the column at the left. While perfectly satisfactory, this center grille is not essential when heating only one room.

Number of Warm Air Outlets—Regardless of the number of rooms to be heated, even when used for heating only **one** room, be sure to provide sufficient outlets from the Heatsaver. Heat is wasted if air cannot flow freely through the heating chamber. For maximum heat from your Heatsaver Fireplace, follow the directions for number and size of outlets as shown in table on page 15.

Note—Outlets need not conform to those illustrated installations as regards location. The flexibility of the installation is one of the many advantages of the Heatsaver Fireplace.



Heating More Than One Room

Where the Heatsaver Fireplace is used to heat two or more rooms, we recommend the type of casing shown above, having a center outlet at the fireplace front in addition to the two upper outlets. This center outlet delivers warm **circulating** air in the fireplace room in addition to the heat radiating from the fire. The outlets from the upper part of the unit are directed to other rooms, either adjoining or on the floor above.

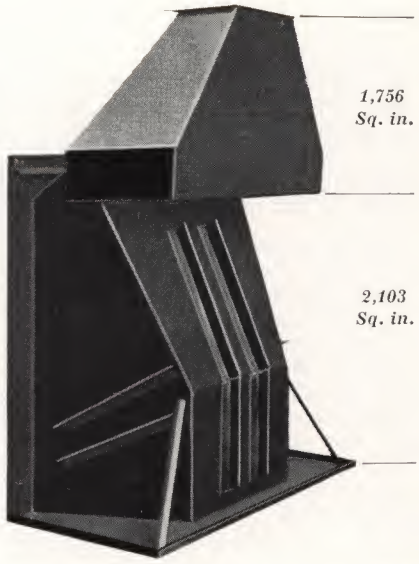
Installation of Heatsaver Fireplace at Lawrence Robbins home, Pepper Pike Village, Ohio. Architects, Paul Ockert and Geo. W. Teare, of Cleveland.

Below: Heatsaver in the office of General L. S. Conelley, at Bedford, Ohio. Installed under direction of L. B. Conelley.

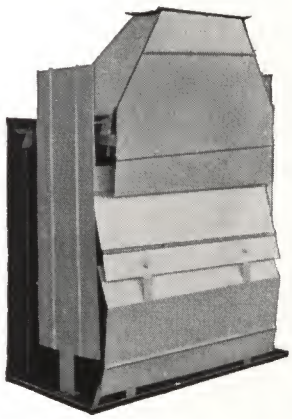
Heat Output

The amount of heat obtained from any size Heatsaver is unusually great (see table of heat output in B.t.u.'s below). There are four main reasons for this extra volume of heat.

First, the Heatsaver makes use of the heated surface above the fire as well as the surfaces surrounding the fire. Illustration at the right shows the area in square inches of heating surface in the 34-inch unit. For other sizes see table below.



This indicates amount of heating surface above and below the smoke shelf.



Rear view with casing removed showing convection sheets.

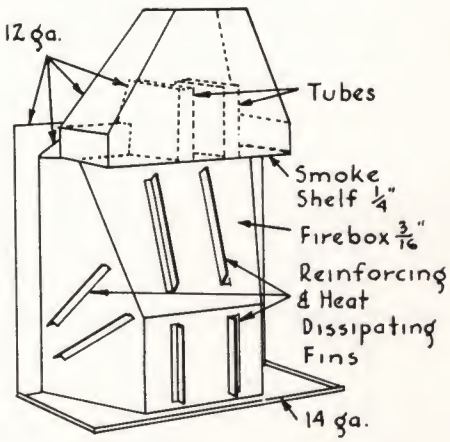
Second, special economizer tubes take air from the hottest areas and pass it through the smoke chamber where it picks up additional heat.

Third, there are heat radiating fins on the heating surfaces. These fins (see sketch) act as added radiating surfaces. Another function of the fins is reinforcing the heating surfaces for added strength and long life.

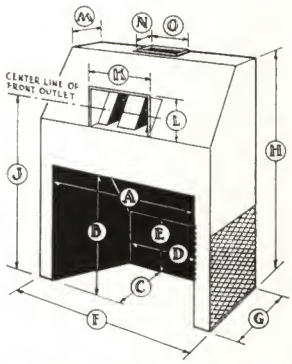
Fourth, the ingenious convection sheets (see illustration at left) guide the moving air so that it passes directly over the heated surfaces. These sheets keep all the air in motion, divert the warm air from the outer casing and prevent pocketing of heated air. The convection sheets and streamlined air flow of Heatsaver design remove all the available heat from the heating surfaces and transfer it to the room where it produces comfort. Another advantage of the non-pocketing feature of Heatsavers is that it eliminates the need for an insulating blanket.

B.T.U. OUTPUT OF HEATSAVER UNITS

Heatsaver Number	Heated Surface in Square Inches			B.t.u. Delivered Per Hour
	Below Smoke Chamber	Above Smoke Chamber	Total	
26	1,661	1,238	2,899	12,900
30	1,927	1,654	3,581	18,600
34	2,103	1,756	3,859	19,800
42	2,671	2,569	5,240	24,040
48	2,949	2,965	5,914	26,700
54	3,574	5,573	9,147	36,020
60	3,763	5,868	9,631	39,300



Showing thickness of materials used, economizer tubes and position of heat radiating fins.



Dimension drawing. See table below for different sizes.

Sturdy Construction

The Heatsaver is built to give a lifetime of dependable service and satisfactory performance. Walls of the fire chamber are of steel, $\frac{3}{16}$ inch thick. The smoke shelf, which takes the most abuse, is ¼-inch thick steel. Other structural parts are of 12-gauge steel, reinforced with steel angles, and outer casing is 26-gauge galvanized steel.

All joints and fastenings of the Heatsaver are electric arc-welded for maximum strength.

DIMENSIONS OF HEATSAVER UNITS

Heatsaver No.	Opening Dimensions, in Inches					Casing Dimensions, in Inches									Shipping Weight
	A	B	C	D	E	F	G	H	J	K	L	M	N	O	
26	26	24	17	11¾	14	33	21	48	40⅛	8	12	11¾	7¼	7¼	280
30	30	28	17	15⅞	14	38	21	55	45⅛	16	12	11¾	7¼	11¼	320
34	34	28	17	20	14	42	21	55	45⅛	16	12	11¾	7¼	11¼	355
42	42	30	18	27	14	50	22	62	47⅛	16	12	16	11¼	11¼	450
48	48	30	18	33	14	58	22	62	47⅛	25½	12	16	11¼	11¼	510
54	54	34	20	37⅜	16	66	26	80	56	25½	12	16	11¼	15¾	800
60	60	34	20	43⅜	16	72	26	80	56	25½	12	16	11¼	15¾	930

Choosing The Size of Unit

To assist in selecting an appropriate size of Heatsaver Fireplace, we give in the table at the right our recommendations for a number of typical rooms.

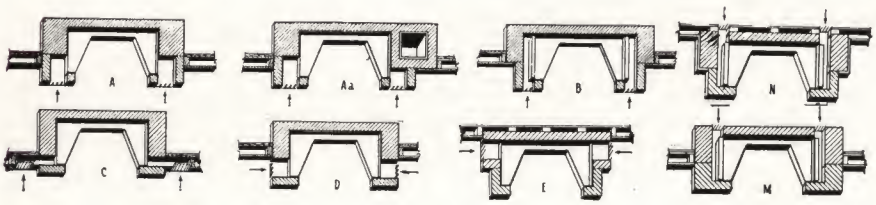
These suggestions are based principally on appearance. Other factors to be considered are:

Unusual height of rooms.
Part of heat directed to other rooms.
Adjoining rooms open.
Used as main source of heat or for auxiliary heat.
Climatic conditions.
Type of building construction.
Fuel to be used.
Rate of fuel consumption.
Size flue available.

Size of Room in Feet	Heatsaver Size When Located On	
	Short Wall	Long Wall
10 x 14	No. 26	No. 26 — 30
12 x 16	" 26 — 30	" 30 — 34
12 x 20	" 26 — 30	" 34 — 42
12 x 24	" 30 — 42	" 34 — 42
14 x 28	" 34 — 42	" 42 — 48
16 x 30	" 34 — 42	" 48 — 54
20 x 30	" 42 — 48	" 54 — 60

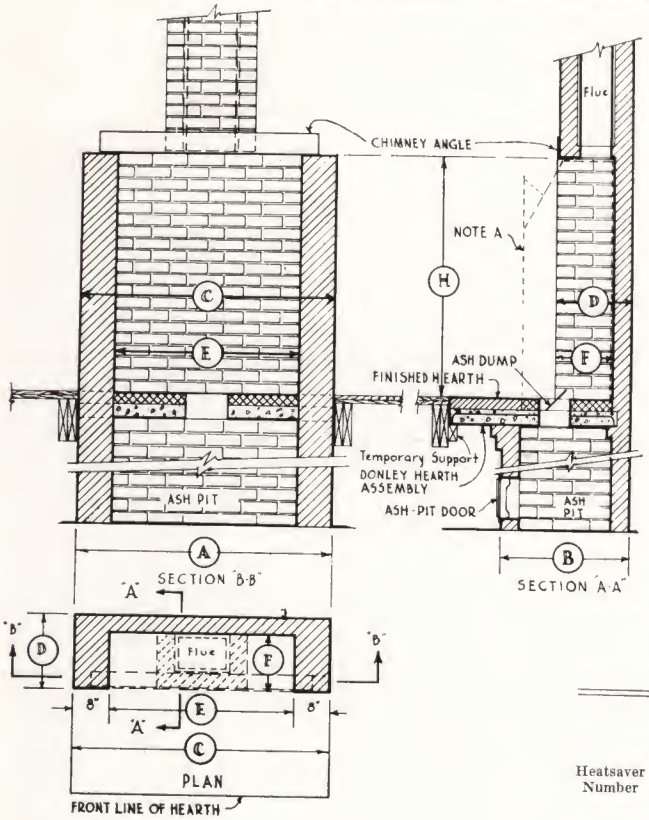
If you are still in doubt about the size fireplace to use, send us complete information about the different factors and we will make recommendations.

Location of Cold Air Inlets



These drawings show the variety of possible locations for cold air inlets. Some locations are visible in the views of actual installations. The only strict requirement for cold air inlets is that they allow sufficient air to enter the unit. Greatest efficiency is attained only when the inlets and outlets are of ample size.

Directions for Installing the Heatsaver Unit



Floor plan must first be determined in accordance with projection of fireplace into the room, also the presence of adjoining flues, both factors influencing the arrangement of cold air inlets. Eight suggested floor plans are shown above.

Diagram of rough masonry should be carefully studied in connection with table of rough masonry dimensions for various sizes of unit. Heatsaver is backed into the rough masonry into position indicated by dotted line. Front of chimney rests on a steel angle, set about one inch higher than the size of Heatsaver used. The Donley Brothers Company desires to help the owner or craftsman obtain the most satisfactory installation of the Heatsaver Fireplace. In describing a problem be sure to include complete detailed information and a statement of your desires.

ROUGH MASONRY DIMENSIONS IN INCHES—
FOR BRICK CONSTRUCTION

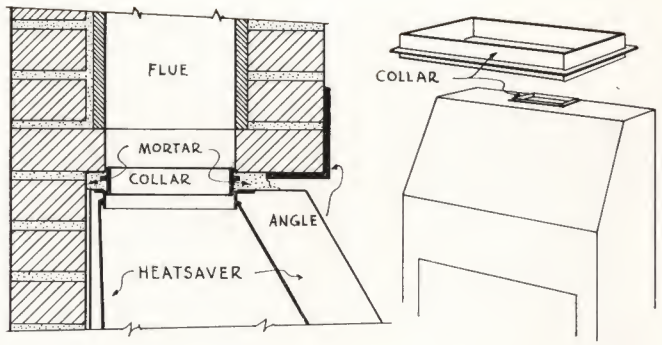
Heatsaver Number	Below Hearth		Above Hearth		Heatsaver Recess Dimensions			Flue Size
	Width	Depth	Width	Depth	Width	Depth	Height to Lintel	Over-All Dimensions
	A*	B	C*	D	E*†	F	H	
26	50	30	50	17	34	13	49	8½ x 8½
30	55	30	55	17	39	13	56	8½ x 13
34	59	30	59	17	43	13	56	8½ x 13
42	67	31	67	21½	51	17½	63	13 x 13
48	75	31	75	21½	59	17½	63	13 x 13
54	83	35	83	21½	67	17½	81	13 x 18
60	89	35	89	21½	73	17½	81	13 x 18

Notes— *Add 10 inches if air filters are used at sides of unit. †This measurement is one inch more than size of unit. Center of flue should be directly above center of dimension.

Method of Attaching to Flue

To avoid mortar dropping inside the Heatsaver, it may be placed in recess after masonry is roughed in. Cut the openings in the casing for warm air outlets before the unit is set.

The Heatsaver is then set in masonry recess with flange of collar resting in flue opening and directly under the flue. The upper side of the flange of collar is buttered with mortar, then pushed up as shown and mortar filled in below the flange to seal the connection.



Necessary Equipment for Installing Heatsaver Fireplace

(All Dimensions in Inches)

Fireplace Opening and No.	Ash Dump No.	Ash Pit Door	Steel Angle for Fireplace Opening C—3x3x$\frac{5}{16}$ D—4x3x$\frac{1}{4}$	Steel Angle for Chimney A—5x3$\frac{1}{2}$x$\frac{5}{16}$ B—6x4x$\frac{3}{8}$	Cold Air Intake Grilles No. 57 Steel / No. 65-L Cast Iron — Installed As A, C, D or E No. 65-L Cast Iron — Installed As B, M or N	Upper Warm Air Outlet Grilles No. 53 Steel / No. 65 Cast Iron	Center Outlet (Optional) No. 60 Cast Iron / No. 65 Cast Iron	Round Warm Air Ducts from Unit to Outlet Grills	Outlet Boxes at Upper End of Ducts
								See Note	
26x24 No. 26	58	10x12	C-30	A-45	Use 2 No. *55 or 57 9x13 Or 2 No. 65-L 9x10	Use 2 No. 53 11¾x 9¼ Or 2 No. 65 8 x 8	Use 1 No. 60 8x6 Or 1 No. 65 8x6	8	8x10
30x28 No. 30	58	10x12	C-36	A-50	Or 2 No. 57 6x19 Or 2 No. 65-L 6x17	Use 2 No. 53 11¾x 9¼ Or 2 No. 65 8 x 8	Use 1 No. 60 16x6 Or 1 No. 65 16x6	8	8x10
34x28 No. 34	70	10x12	C-42	A-54	Use 2 No. *55 or 57 9x15 Or 2 No. 65-L 9x13	Use 2 No. 53 11¾x 9¼ Or 2 No. 65 8 x 8	Use 1 No. 60 16x6 Or 1 No. 65 16x6	8	8x10
42x30 No. 42	70	10x12	C-48	A-62	Or 2 No. 57 6x23 Or 2 No. 65-L 6x22	Use 2 No. 53 11¾x 9¼ Or 2 No. 65 8 x 8	Use 1 No. 60 16x6 Or 1 No. 65 16x6	8	8x10
48x30 No. 48	70	10x12	D-54	A-70	Use 2 No. *55 or 57 9x19 Or 2 No. 65-L 9x17	Use 2 No. 53 13¾x10¼ Or 2 No. 65 12 x 8	Use 1 No. 60 24x6 Or 1 No. 65 23x6	9	9x12
54x34 No. 54	70	12x15	D-60	B-78	Or 2 No. 57 6x29 Or 2 No. 65-L 6x25¾	Use 2 No. 53 13¾x10¼ Or 2 No. 65 12 x 8	Use 1 No. 60 24x6 Or 1 No. 65 23x6	9	9x12
60x34 No. 60	70	12x15	D-66	B-84		Use 2 No. 53 13¾x10¼ Or 2 No. 65 12 x 8	Use 1 No. 60 24x6 Or 1 No. 65 23x6	9	9x12

*Similar to No. 53 outlet grille but more open.

Note: Galvanized piping and tinned outlet boxes for warm air outlets regularly supplied. Tinned piping supplied when ordered. If a sketch of proposed installation is sent, we will figure quantity of piping necessary.

On orders where pipe, elbows and outlet boxes are included, but the number of each required is not indicated, the following quantities of appropriate sizes, being sufficient for the average installation, will be shipped:

2—2′0″ Lengths of pipe
2—1′0″ Lengths of pipe
4—Adjustable elbows
2—Outlet boxes

Optional Equipment

(Should Be Considered Before Calling Order Complete)

Equipment	Heatsaver Number						
	26	30	34	42	48	54	60
Fire Basket	24″	28″	30″	40″	40″	40″	57″
Log Rests .	16″	16″	16″	16″	16″	20″	20″
*Crane ...	No. 1	No. 1	No. 2	No. 2	No. 3	No. 4	No. 4

Note: *Supporting lugs are welded to side of unit at factory at no extra charge if crane is ordered with Heatsaver.

This Sample Order→

As a checking list for your order this sample order is included. Comparison with the sample order, with such changes in sizes, designs, additions or omissions as you desire, may avoid changes or delays when the installation is being made. We are anxious that the installation be correct and freely offer our help.

CLEVELAND, OHIO

Suggested Sample Order for Heatsaver Fireplace and Equipment

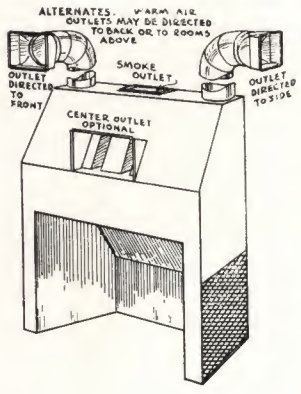
1	No. 34 Heatsaver fireplace.
1	No. 70 Ash dump.
1	10x12 Ashpit door.
1	3x3x$\frac{3}{16}$x42″ steel angle.
1	5x3½x$\frac{5}{16}$x54″ steel angle.
2	No. 57 grilles 9″x15″.
2	No. 53 grilles 11¾″x9¼″.

If front warm air outlet is to be used, above list should include one grille No. 60, 16″x6″.

OPTIONAL ADDITIONS

2	24″ lengths of 8″ galvanized pipe.
2	12″ lengths of 8″ galvanized pipe.
2	Elbows of 8″ galvanized pipe.
2	Outlet boxes, double tin 8″x10″.
1	30″ fireplace basket.
1	No. 2 crane.
	Fireplace Screen No. ...
	Andirons No. ...
	Fireset No. ...

Arrangement of Warm Air Outlets

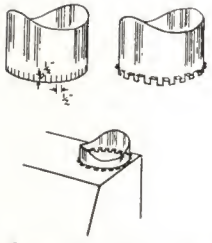


At the left is a drawing showing various positions and directions of warm air outlet pipes.

Pipes should be round. The required capacity is secured more easily with round pipes. Elbows and angles are made more easily. Rectangular ducts with required pipe area for most installations will not fit the top of the Heatsaver, due to limitations enforced by the angle supporting the chimney masonry.

If necessary to use rectangular pipe in meeting some special condition, we recommend that round pipe be run from the Heatsaver to a point where it is necessary to change. The change can be made to rectangular pipe by means of a foot piece. Warm air passages may be formed with masonry or other incombustible material, but bright metal ducts are more efficient.

To join pipe to casing, snip narrow leaves around pipe as shown. Bend alternate leaves at right angle and place against casing. Then bend leaves passing through casing in the same manner. Finish with collar of asbestos fabric and cement.



If the center warm air outlet is used, notice that although the outlet of unit as shown is 12″ high, the grille to be used is only 6″ high. This permits a choice of elevation to fit different mantel designs.

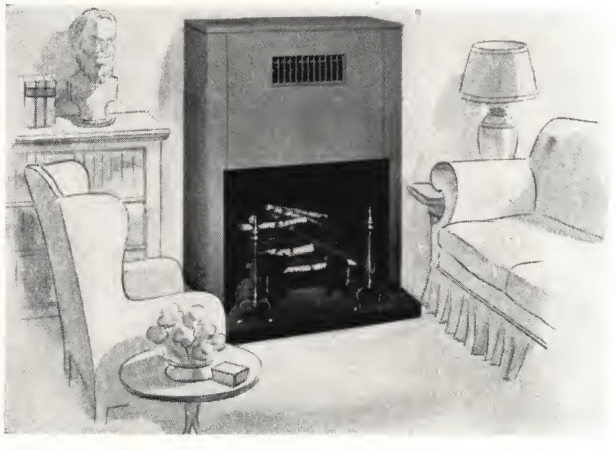
Donley Cabinet Heatsaver Fireplace

Here is a fireplace that comes to you complete, needing only to be set on the hearth and connected to the flue to afford a practical, comfortable, attractive heating unit in which the glow of the open fire is supplemented by a flow of heated air.

The Donley Cabinet Fireplace is a self-contained Heatsaver Unit, with its outer shell attractively lacquered—a harmonious and welcome addition to living room, boudoir, or any part of your premises. Convection sheets in the warm air chamber keep the outer surface relatively cool, so that there is no danger in touching it or placing it in proximity to your wall, book shelves or other furniture. While tastefully finished, you may wish to redecorate it at some time in harmony with your particular decorative scheme and this is perfectly feasible.

Installation is simplicity itself. The Donley Brothers Company offers a portable hearth, on which the Cabinet Fireplace rests, or you may choose to construct a more permanent hearth. The other requirement is a flue to which the Cabinet Fireplace may be connected by means of an extension collar at the back. If a masonry chimney is lacking, a metal chimney affords a simple solution.

Donley Cabinet Fireplaces are made in two sizes, with 26-inch and 34-inch opening, respectively. The latter is a popular size for living rooms, club rooms and offices. The former fits conveniently into smaller rooms. Minimum flue size required is 8½x8½ for No. 26 and 8½x13 for No. 34.



If you have a cold room, a Cabinet Fireplace will convert it from mere useless space into a charming and welcome addition to your establishment. Many older homes have rooms that were originally heated by stoves. The flue remains, and a Cabinet Fireplace imparts a warmth and cheerfulness hitherto unknown.

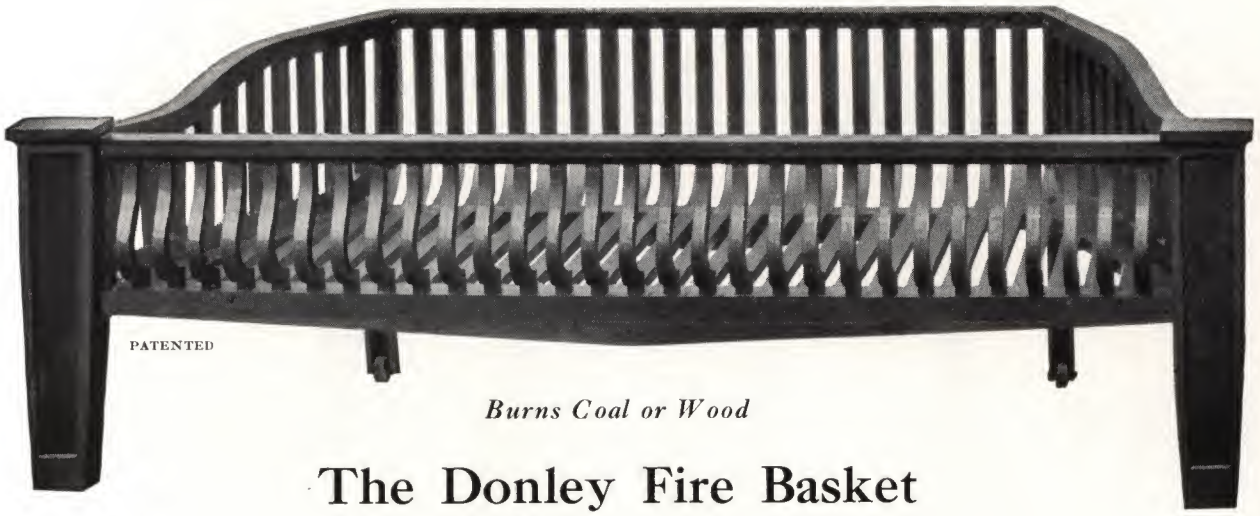
Write for full details about the Cabinet Fireplace and learn how easily you can have all the cheer of an efficient, modern, attractive heating unit.

Cabinet Heatsaver Dimensions

No.	Overall Height	Size of Collar on Flue Connection		Flue Connection Projects	Center Line of Flue Connection to Bottom of Unit	Shipping Weight
		Width	Height			
26	51	8″	10½″	4½″	44¼″	365 lbs.
34	58	11¾″	13¾″	5½″	47⅞″	465 “

Hearth for Cabinet Heatsaver

The insulated hearth for the Cabinet Heatsaver Fireplace is supplied in two sizes. The one for the No. 26 unit is 34″x35″x3½″ and weighs 130 pounds.The hearth for the 33″ unit is 44″x35″x3½″ and weighs 160 pounds.



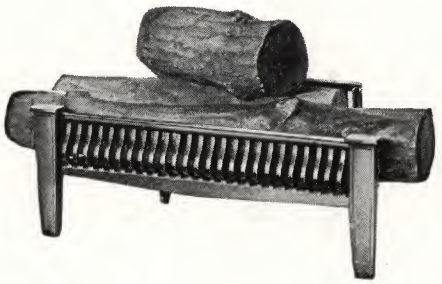
Burns Coal or Wood

The Donley Fire Basket

SIMPLE, graceful and correctly designed, the Donley Fireplace Basket is sturdy enough to stand hard usage for many years. It is a product of the Donley policy of coordinating every feature of the fireplace with every other part. The basket is narrow at the back to coincide with the side wall angle of a properly designed fireplace.

Made of the best quality stove plate cast iron, this basket will not warp under uneven distribution of heat. The back legs are provided with rollers which make it easy to move the basket on the hearth.

A highly advantageous feature is the design of the fire basket ends. These are removable, making it possible to burn wood of any length that will fit the fireplace. In many homes the wish to burn coal and wood alternately is complicated by the nuisance of removing the whole basket. With a Donley Basket, simply lift out the ends and the basket is ready for burning logs. Careful design and construction avoid possibility that these ends will warp or fall out. There is no dump bottom to become dislodged. The graceful lines of the Donley Fire Basket avoid eccentricities and harmonize with any interior.



This illustration shows how the ends of the Donley Fire Basket can be removed for burning logs longer than the basket itself. These ends are easy to remove or to set in place.

Dimensions of Donley Fire Basket

Front Order by this No.	Back	Depth	Shipping Weight	Suitable for Fireplaces With Opening Widths of
24″	12½″	15″	45 lbs.	24″ to 28″
28″	16½″	15″	50 “	28″ to 34″
30″	18½″	15″	53 “	32″ to 36″
34″	22½″	15″	61 “	36″ to 44″
40″	28½″	15″	80 “	44″ to 60″
57″	45½″	15″	120 “	60″ to 84″

Height at back, 12″. Height at front, 10½″. Clearance for andirons under front, 5″.

Donley Log Rests

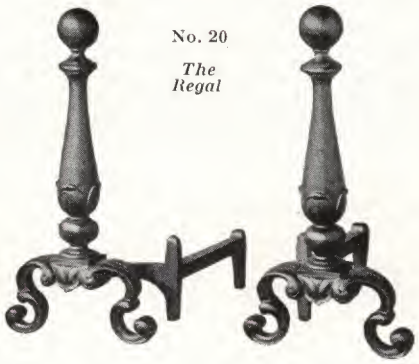
For the fireplace where only wood is burned, Donley Log Rests are fuel holders of long life and resistance to heat. One pair is generally sufficient for a fireplace although three or four are sometimes used in wide fireplaces with short logs. When used with andirons, the andiron supports slide under the log rests as shown in illustration at the left. In outdoor fireplaces, log rests handily support a grid or grille for cooking. Made in two lengths, 16″ and 20″, weighing respectively 41 and 48 pounds. Supporting surface is 5½″ high and 4¾″ wide.

Graceful, Dignified Andirons

Except those models designated as cast brass, all Donley Andirons are cast from high grade gray iron. On cast brass models, the fuel supporting shanks are of gray iron.

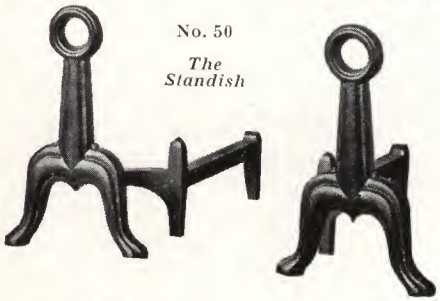
Avoiding eccentricities, Donley Andirons are designed to gratify a variety of tastes and co-ordinate with other elements in the fireplace picture. For description of finishes, see next page. Order by number listed in table.

No. 10
The Sentinel



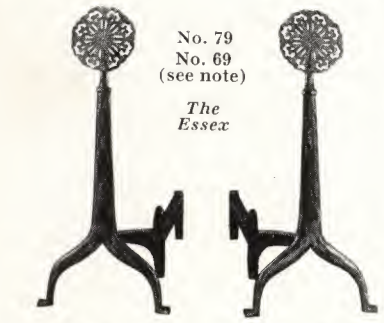
No. 20
The Regal

No. 30
The Windsor



No. 50
The Standish

Name	Height, Inches	MATERIALS AND FINISHES (See description of finishes on next page)					
		Cast Iron, Black	Cast Iron, Brass Plated	Cast Iron, Antique Brass Plated	Cast Iron, Black, Cast Brass Top	Cast Brass	Swedish Iron, Brass Plated Top
		No.	No.	No.	No.	No.	No.
Sentinel ..	20½	10	11	15	..	..	..
Regal	22	20	21	25	..	..	..
Windsor ..	18½	30	31	35	..	..	..
Standish ..	14½	50	51	55	..	..	..
Essex	18½	..	..	..	..	..	69
"	24½	..	..	..	..	..	79
Brewster ..	19	..	..	..	..	158	..
Rumford ..	18	..	..	..	..	168	..
" ..	21	..	..	..	..	178	..
Roanoke ..	16½	..	..	..	187	..	..
" ..	20½	..	..	..	197	..	..
Mt. Vernon	20½	..	..	..	207	..	..
"	23½	..	..	..	217	..	..
Craftsman	17	220	221	(for illustration see page 14)			



No. 79
No. 69
(see note)
The Essex

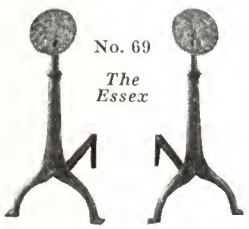
No. 158
The Brewster

No. 168
No. 178
(see note)
The Rumford

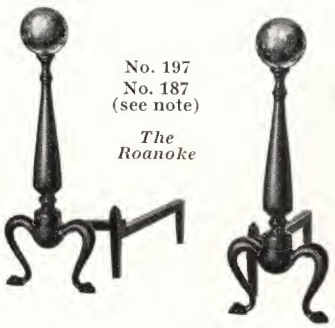
Note: Similar, but different dimensions.

Andiron Shanks

All andirons are regularly furnished with the curved shank as shown in the various illustrations. The straight shank shown on andiron at the right is optional on the Regal, Sentinel, Windsor, Standish and Essex models. Straight shanks are shorter, cost less than the curved shank and are sometimes preferred with log rests or fireplace basket. Length, 13 inches. Curved shanks are supplied unless otherwise specified.

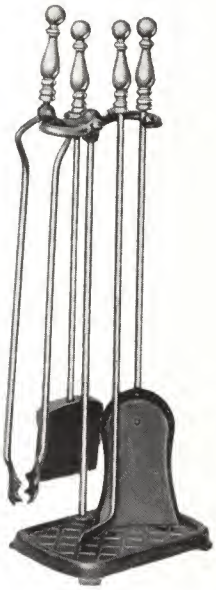


No. 69
The Essex
With straight shanks



No. 197
No. 187
(see note)
The Roanoke

No. 217
No. 207
(see note)
The Mt. Vernon

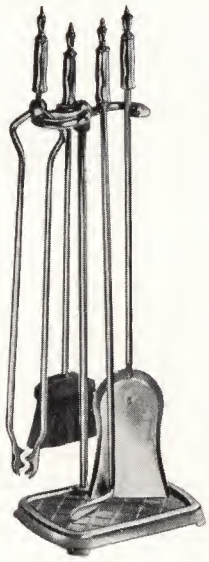


Model 240 Series

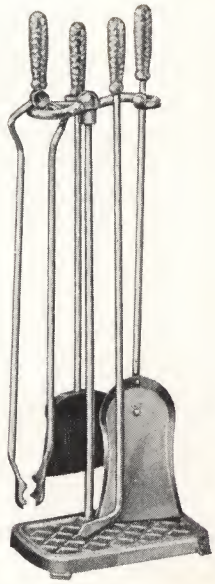
Useful, Appropriate Fire Sets

Shovel, poker, tongs and hearth brush make fire tending easier and more enjoyable. Donley Fire Sets are designed and finished to match the appearance of Donley Andirons. The sets shown at the left and right have tools of forged steel with handles of polished brass or cast iron, in design and finish to match other fireplace furnishings. Tools are 30″ high, made of $\frac{7}{16}$″ round steel with special design claw tongs as shown in illustration below. At the left, below, is a description of the finishes available.

Fire sets should, when possible, match the andirons in shape and finish. Donley Fire Sets are made in a variety of models that harmonize well with Donley Andirons. Careful selection will assure a pleasing appearance in the fireplace furnishings.



Model 250 Series



Model 270 Series

Description of Finishes of Andirons, Fire Sets and Fireplace Furnishings

Art Black—A semi-gloss, black finish that is rust and heat-resisting.

Brass—Cast, spun or extruded yellow brass, polished and lacquered.

Brass Plated—An electro-plated and lacquered finish of yellow brass on cast iron or steel, having the appearance of brass; semi-permanent.

Antique Brass Plated—Similar to brass plating, but of a brownish, aged brass color, applied to cast iron or steel.

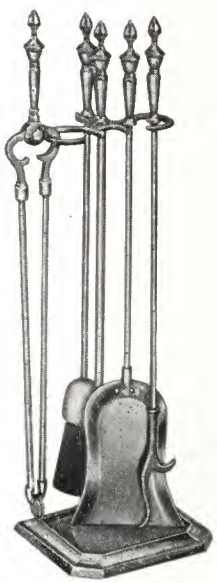
Swedish Iron—A gray iron finish, sometimes with hammered appearance, lacquered for preservation of color and protection against rust.

Iron and Steel Models

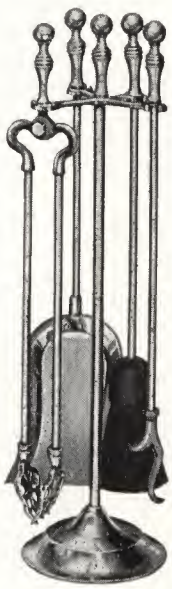
The Model 240 Series, shown above, has a ball topped handle, Model 250 Series has urn-shaped handles. Model 270 Series has a plain handle. All these sets have the new forged steel claw type tongs that facilitate fuel handling. Sets are 30 inches high overall and have a shipping weight of 18 pounds. Order by number.

FIRE SET MATERIALS AND FINISHES			APPROPRIATE ANDIRONS TO USE WITH FIRE SETS LISTED AT LEFT
Handles	Tools	Fire Set No.	
Cast Iron, Black	Steel, Black	240 250 *270	20, 50, 187, 197 10, 20, 207, 217 Any Andiron with similar finish
Cast Iron, Antique Brass Plated	Steel, Black	245 255	25, 55 15, 35, 55
Cast Iron, Antique Brass Plated	Steel, Antique Brass Plated	246 256	25, 55 15, 35, 55
Solid Brass	Steel, Black	247 257 *277	21, 51, 158 31, 38, 51, 168, 178, 207, 217 Any Andiron with similar finish
Solid Brass	Steel, Brass Plated	248 258 *278	28, 51, 158, 187, 197 31, 38, 51, 168, 178, 207, 217 Any Andiron with similar finish
Cast Iron, Hammered Swedish	Steel, Swedish	279	69, 79

*Hammered Handle. Also available with smooth handle.



Model 212-B



Model 218-B

Brass Models

Donley brass model fire sets are available in four styles, two of which are illustrated at the left. Model 212-B has urn-shaped handles with flanged, flat base that prevents scattering of ashes. Model 218-B has a ball topped handle with canopy base. Model 210-B (not illustrated) has ball type handles with flanged flat base, and Model 220-B (not illustrated) has urn type handles with canopy base. Models 210 and 212 are 25 inches high, shipping weight 16 pounds. Models 218 and 220 are 27 inches high, shipping weight 10 pounds.

Donley Fireplace Screens

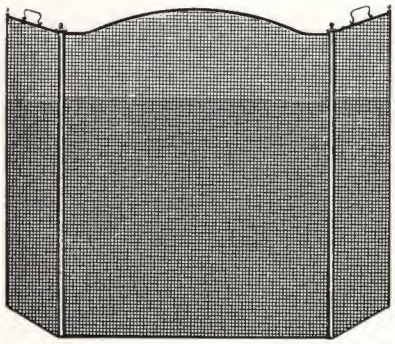
Stop Flying Sparks

Donley Fire Screens are made in three types—the flat type that fits close to the fireplace front, those with a wide central panel and two wing panels, multiple fold models (4 and 5 folds). Each is substantial, attractive and built to last.

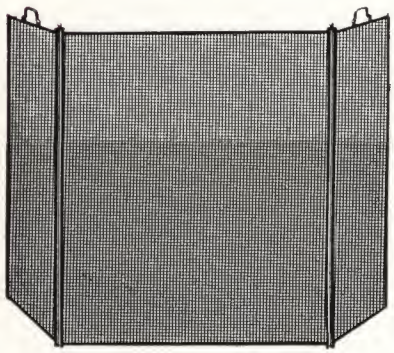
Flat Type. These one-piece screens set close to the fireplace front. Stock sizes are made to overlap standard size openings approximately one inch at sides and top. They are made with strong steel wire mesh and notched at the bottom for use with andirons. Stock sizes: 27x25, 29x31, 35x29, 32x31, 38x31, 44x31 and 50x31. Shipping weights, 18 to 30 pounds. Other sizes will be made up on special order. In ordering special screens, state size of opening—screens will be made so as to overlap opening one inch at top and at each side.

Screen type No. 1 has a rod frame with supporting feet welded in place. Neat, substantial black handles are regularly furnished or, at small cost, handles are finished in solid brass or antique brass to match the furnishings.

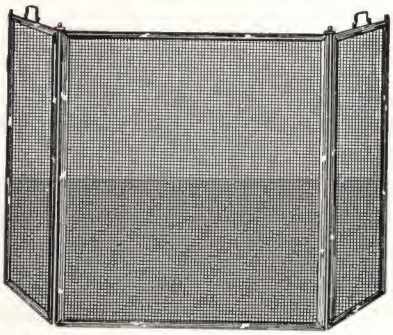
Type No. 2 has a special design, strongly riveted frame with smooth edges. Frame is finished in black, hammered Swedish (gray steel) or polished brass. Handles and legs are finished in black, polished brass or antique brass. The ornament is optional.



No. 314



No. 302



No. 307

Folding Types. The folding screens shown here rest outside of the andirons. They fold down to a minimum size when not in use. Screen should be chosen for size as well as for appearance. Folding screens are more convenient when refueling the fire but give less protection.

No. 302, 3 fold, has a rod frame supporting strong wire screening. Adapted for fireplaces 24″ to 48″ in width. Center panel is 26″ wide, side panels 13″. Height 30″. Furnished in black with brass handles and knobs.

No. 307. Polished brass frame and handles with strong wire screening; for fireplaces up to 48″ wide. Center panels 26″ wide, side panels 13″ wide, height 30″.

No. 304. Rod frame, top trimmed in polished brass tubing. Strong steel mesh painted black. Center panel 26″ wide, side panels 13″. For fireplaces up to 48″ wide. Similar to No. 314 (see illustration) but with straight top instead of arch.

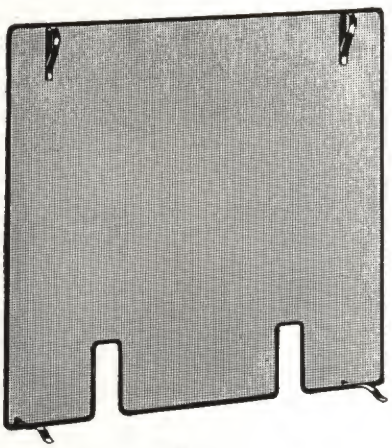
No. 314. Same as No. 304 but with arched top (see illustration).

No. 402. Black, rod frame with brass knobs and handles, each fold 13″ wide, height 30″.

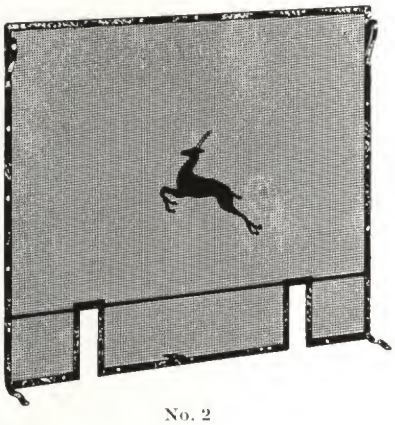
No. 503. Similar to No. 402 but with five folds, 36″ high.

No. 416. Square, solid brass, polished, heavy molded frame with curved top and close mesh, strong, black wire cloth; four 13″ folds; height 30″.

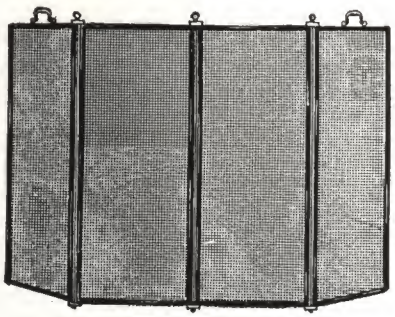
No. 426. Same as No. 416 but with antique brass finish.



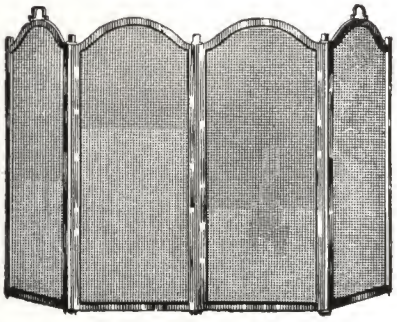
No. 1



No. 2



No. 402



No. 416

Wood Carriers and Coal Hod

Neat Fuel Containers. Donley Wood Carriers and Donley Coal Hod of attractive design in metal, overcome the common objection that many home owners hold toward the problem of fuel containers. These three designs in a choice of finishes, make it possible for the owner to be proud of his fireplace appointments. The fuel container should be selected to match the finish of other fireplace equipment.

Nos. 1, 2 and 3. Size 12½"x21" in three finishes. See table.

No. 1, 2 and 3

Nos. 11 and 12. Size 14"x21". No. 10, same shape and size but with smooth finish. See table.

No. 10, 11 and 12

Order by Number	Finish		Shipping Weight
	Basket	Handle	
1	Black	Bright Brass	7 lbs.
2	Black	Antique Brass	7 "
3	Antique Brass	Antique Brass	7 "
10	Black	Black	7 "
11	Antique Brass Hammered	Antique Brass	7 "
12	Swed. Hammered	Antique Brass	7 "

Coal Hod

Furnished in dull black and choice of polished brass or plated antique brass handle. Shipping weight 7 pounds.

Donley Craftsman Fire Baskets

This Craftsman type of Donley Fire Basket is specially designed for smaller fireplaces than those using the regular types on page 9. It is equipped with a cast iron dump grate.

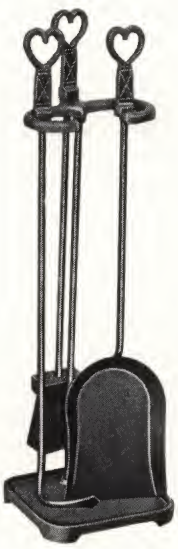
Order by Number	Width, Front	Width, Back	Depth	Shipping Weight
120-20	20"	17"	11½"	41 lbs.
120-22	22"	19"	11½"	44 "
120-24	24"	21"	11½"	46 "

Craftsman Andirons

This Donley Craftsman Andiron supplies the need for an inexpensive andiron of simple design in black or brass plated. Its height is 17 inches and it is thoroughly practical but less ornamental than the andirons regularly listed on page 10. Suitable for small fireplaces. See table on page 10 for details.

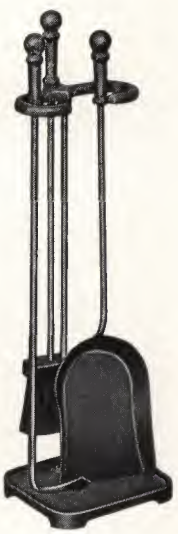
Craftsman Fire Sets

Besides the regular line of Donley Fire Sets shown on page 11, we offer these two Craftsman models in black finish only, consisting of poker, shovel and brush but without the tongs, shown in other sets.



No. 311, with heart-shaped handle. Height, 24 inches. Black iron only. Shown at left.

No. 312, with handle of simple colonial design. Height, 24 inches. Black iron only. Shown at right.

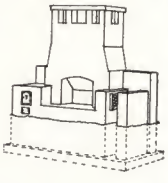


Build An Outdoor Fireplace

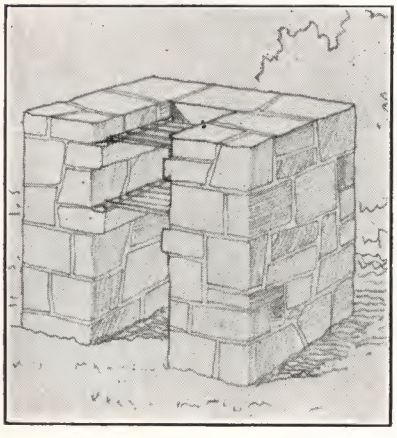
The rapidly growing popularity of outdoor cooking has intensified the interest in outdoor fireplaces. Donley Brothers show here equipment for such fireplaces and a few of the popular designs. More information and other designs are contained in the book "Successful Outdoor Fireplaces," sent for 10c in coin or stamps.

Outdoor fireplaces are divided into three distinct types. One resembles the indoor fireplace but has a shorter chimney (except when built beside the house or garage). Its purpose is mainly for warmth and cheer, any cooking is done with forks as at a wiener roast. The second type is built on the principle of an old fashioned cook stove. There is alsc a newer version combining the advantage of both. It is shown on the next page as the all-purpose design, unit No. 70.

In addition to the masonry, the cooking type of fireplace requires certain metal equipment. These metal assemblies are standardized to popular sizes and simplify masonry construction. In different combinations they meet a wide variety of fireplace designs. Artistic treatment is often combined with utility features, some masonry designs being quite elaborate, but still useful and permanent.

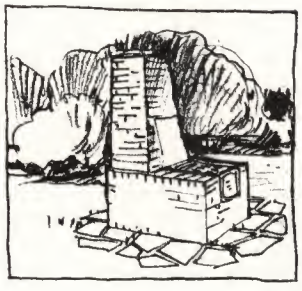


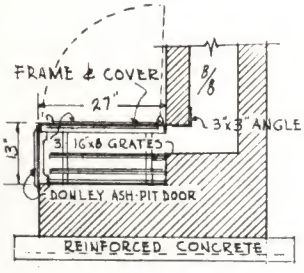
Proper Support Is Important. In frostless climates, a shallow foundation is enough. But where frost is a factor, two alternatives are possible. Masonry may go below the frost line, or a small fireplace may be supported on a reinforced concrete slab, of dimensions somewhat larger than the area of the structure. Large, heavy structures should have foundations that extend below the frost line.



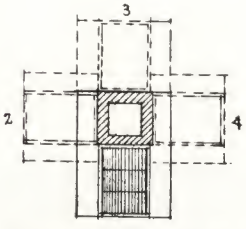
Unit No. 10 is used in building this simple form of outdoor fireplace. Grates on two levels, one above the other support fire and utensils. Three sizes available, see table on page 23.

Unit No. 20 is made in two styles, No. 20-A with one door and No. 20-B with two doors. At the right is the basic unit. Drawings below show some of the variations possible, and construction details.

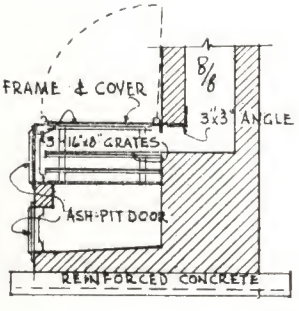


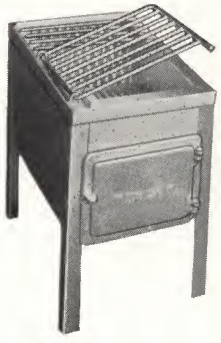


Design No. 20-A

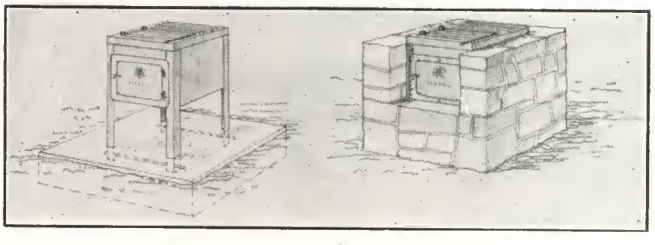


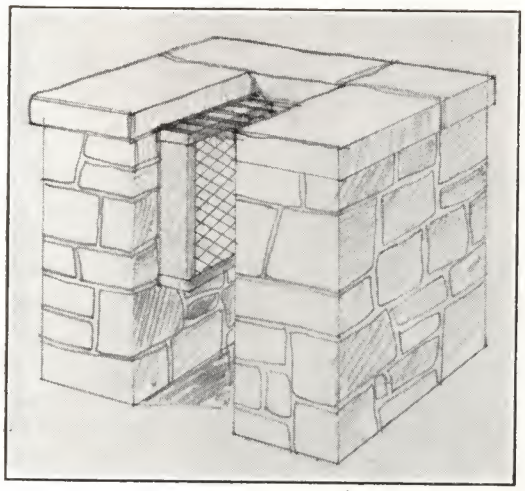
Drawing above shows how the main idea can be expanded to provide as many as four cooking areas with only one chimney.

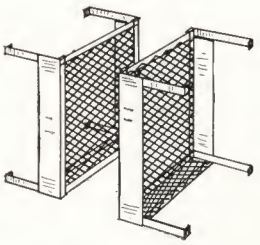


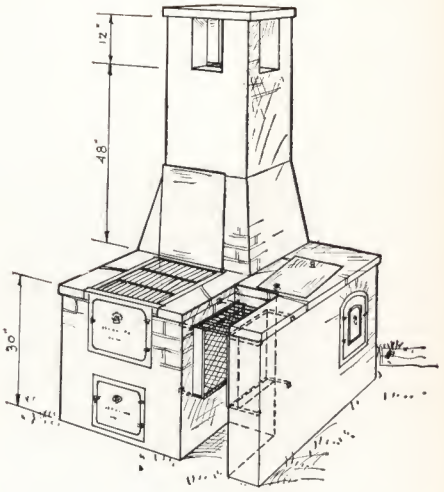


No. 30 Unit. This charcoal stove type unit can be used either in public parks or at home. Especially adapted for park use, since all parts are securely fastened in place, preventing pilfering. May be used as shown in view at the left for private use, or anchored as shown in the installation views below. Door and grates are cast iron, other parts of steel. Grid at top is made of $\frac{7}{16}$" rod, welded construction. Two-thirds of this grid is hinged to allow access to fire chamber. Height 24", size at the top 14½" wide and 20½" long. Shipping weight 66 pounds.









Unit No. 40. View at the left shows a simple installation of the Donley Duplex Steak Grill. Masonry recess is 12″ wide, 20″ deep and 24″ to 30″ high. At the right, Grill is shown combined with other units. Illustration above shows sturdy baskets and the frames which are built into the masonry. No. 40 Unit also includes a removable top grate which permits other cooking uses. Grill cooks both sides of steak or other meat at the same time. Users say a steak cooks in three or four minutes.

Unit No. 60. The Dutch Oven is included in a fireplace for baking or reheating food. A charcoal fire on the lower grate or hot coals from the main fire are used for heat. A larger and separate flue is necessary if other fuel is used. Drawing at the right above, shows a Unit No. 60 Dutch Oven in a fireplace combining Units No. 20-B and No. 40.

All-Purpose Design

Unit No. 70. The two purpose design shown at the right combines cooking facilities and warmth in one fireplace. The upper part like an indoor fireplace radiates heat. The lower part is the cooking grill, generally depending on charcoal for fuel to avoid smoke.

When used for a cheerful blaze, the grates at the hearth level are pushed to the rear, to support the fuel and afford some additional draft. When used for cooking, these upper grates are pulled forward to support cooking operations, while the charcoal fire, or hot embers, are supported by the grate six inches below. The space below is for ashes.

The table below tells what equipment is included in each unit.

Portable Duplex Steak Grill

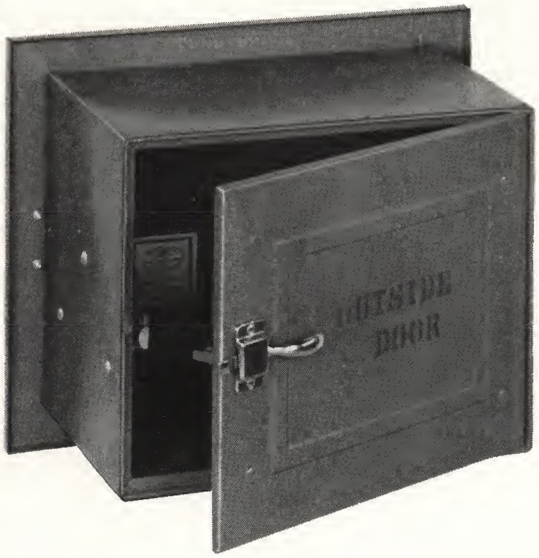
Unit No. 50. An improved, portable grill for broiling steaks, wieners, sausages, fish, etc. Broiling is done between two banks of charcoal fire, thus cooking both sides of meat at the same time. Toaster type clamp or a spit is used for the grilling. Other cooking, making coffee, etc., can be done on top of the fires at the same time. Compact and easy to transport in car.

OUTDOOR FIREPLACE EQUIPMENT

Unit No.	Description		Shipping Weight
10-A	Grate Area 12 x19½″	2 Grates 12 x19½x½″	22½ lbs.
10-B	Grate Area 13½x20″	4 Grates 13½x10 x⅜″	20 “
10-C	Grate Area 12 x25″	2 Grates 12 x25 x½″	30 “
20-A	Range Assembly 18x27x13″	Frame inc. Top 6 Grates 1 Door 1 Angle	83 “
20-B	Range Assembly 18x27x13″	Frame inc. Top 6 Grates 2 Doors 2 Angles	110 “
30	Charcoal Stove 14½x20½x24″		66 “
40	Duplex Grill (Built-in)	2 Frames and Baskets 16x16x3″ with Anchors 1—12x19½x½″ Grate	21 “
50	Portable Duplex Grill	in carton 13x13x18″	17 “
60	Dutch Oven Assembly	1 Dutch Oven Door 1—10x12″ Ash Door 2—12x18″ Grates	53 “
70	Universal	2 Channels with Anchors 4—12x19½x½″ Grates 1 No. 2 Crane 1—3x3″ Angle 48″	95 “

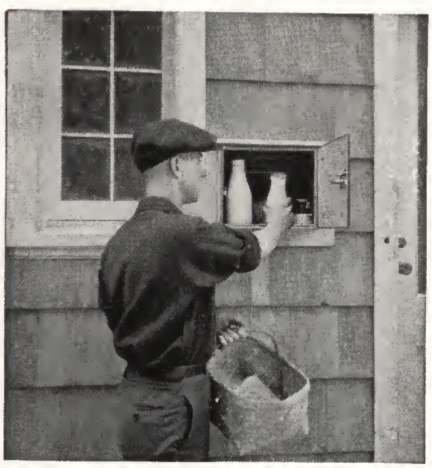
Donley Package Receiver

For Safer Deliveries . . . Fewer Interruptions



Every modern home should have a Donley Package Receiver installed in an outside wall of the kitchen or entry. This insulated steel receptacle received deliveries of packages, bread, milk, newspapers, etc., and holds them safely until removed. It cares for deliveries when no one is at home or when the occupants are busy at other tasks. This package receiver stops doorstep deliveries, stops losses from prowling cats, dogs and petty thieves, and keeps strange men out of the house.

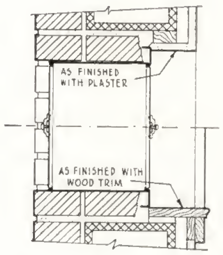
When packages are placed in the receiver and outer door is closed, it locks automatically. When the inside door is opened, the outside door is automatically unlocked, ready for the next delivery. This automatic feature can be disconnected at will. It is standard equipment on Nos. 1 and 2, and is omitted on Nos. 3 and 4.



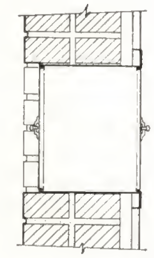
The insulated and ventilated features of the Donley Package Receiver protect the contents from excessive cold in winter or heat in summer. The package receiver is complete in itself, nothing else to buy, no upkeep expense and is approved by the Good Housekeeping Institute. Because it is in use every day, its installation in new or old homes increases their salability. It is inexpensive, easily installed and gives long, trouble-free service. The brass and steel construction (no breakable cast iron) insures free swinging doors at all times, a condition not possible with wood or other materials that are sensitive to changes of weather.

Tested and Approved
Serial No. 1343
by
Good Housekeeping Institute
Conducted by
Good Housekeeping Magazine

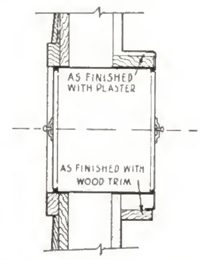
Package Receiver—Installation in Walls of Various Thickness



9-Inch Size in 13-Inch Masonry Wall.



9-Inch Size in 9-Inch Masonry Wall.



9-Inch Size in 6-Inch Frame Wall. If 6-Inch Size is Used, Finish Inside is Similar to 9-Inch Size in 9-Inch Masonry Wall.

Description. The steel body is reinforced at the outer edge, is made without a projecting frame, and is inconspicuously recessed in the wall. Holes in the body provide for nailing, in masonry or frame. The steel outer door is covered on the inside with insulating board. The steel inner door has four long horizontal slits to provide ventilation. Both doors have convenient catches of rust-proof brass and strong concealed hinges with brass bushings. Flanges and embossing give additional rigidity. Each receiver is thoroughly painted with a high grade priming coat while the locks and catches are made of brass or rust-proofed steel.

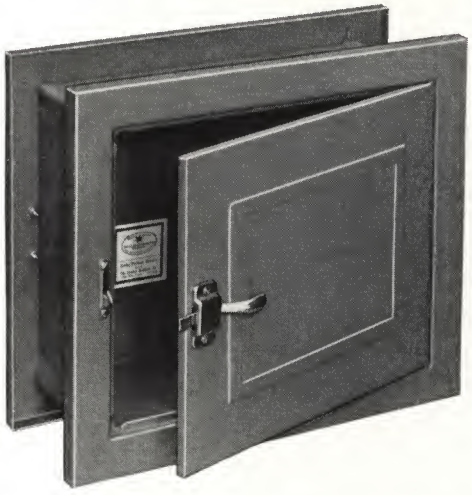
Package Receiver Dimensions

No.	Body		Over All Front to Back	Inside Frame	Facing Inside Door, With Hinge	Shipping Weight
	Width	Height				
1	13⅞″	11⅛″	9″	16¾x14″	On Left	20 lbs.
2	13⅞″	11⅛″	9″	16¾x14″	On Right	20 "
3	13⅞″	11⅛″	6″	16¾x14″	Reversible	16 "
4	13⅞″	11⅛″	9″	16¾x14″	Reversible	20 "

Note: Return of flange on inside, ¾″. Nos. 1 and 2 have automatic lock; Nos. 3 and 4 no automatic lock.

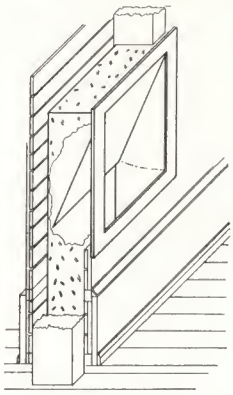
THE DONLEY BROTHERS CO.

Apartment House Package Receiver



When installed in hallways this Package Receiver provides a desirable convenience for each tenant. Both doors are fitted with chrome plated brass latches. Made in 2 parts with telescoping body to fit walls 5″ to 8″ thick. Installed after plastering by fastening to a ⅞″ wood frame, of width equal to thickness of finished wall. Inside dimensions of wood frame should be 14½″x11½″, so the Package Receiver can slip inside. Holes are provided for fastening package receiver to frame. Made to order for other wall thicknesses. Shipping weight, 20 lbs. Order by No. 10.

Laundry Chute Door



This inward-opening, self-closing Donley Laundry Chute Door is a marked convenience in connection with the vertical chutes built into many homes for the purpose of dropping soiled clothing from the second floor and kitchen direct to the basement laundry. Door and frame are easily installed with concealed nailing, making a complete unit that is inconspicuous but always ready for use. The frame extends only one-fourth inch outside the wall line and there is a wide flange inside for attachment to the laundry chute. No. 1 is finished in a priming coat of gray paint. No. 10 has a polished chromium plated finish. Individually packed in carton.

Dimensions of Donley Laundry Chute Door

Size of Wall Opening		Size of Door Opening		Overall Size		Shipping Weight
Width	Height	Width	Height	Width	Height	
9″	12″	8⅛″	11″	11″	13⅞″	6 lbs.

Donley Caulking Compound and Caulking Gun

Caulking Compound. Caulking window and door frames eliminates cold air drafts, dust and dampness and prevents paint peeling. Donley Caulking Compound contains non-oxidizing oils and highly absorptive asbestos fibre. It does not stain, remains elastic indefinitely. Meets Federal specifications.

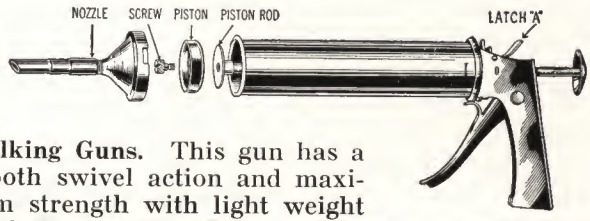
Gun grade will caulk about 175 lineal feet per gallon (Knife grade less) depending on size of bead. Available in natural and slate, or standard colors (red, green, brown and black). Shipping weight 14 pounds per gallon.

Available in drums, half drums, 5 gallon kits and one gallon cans.

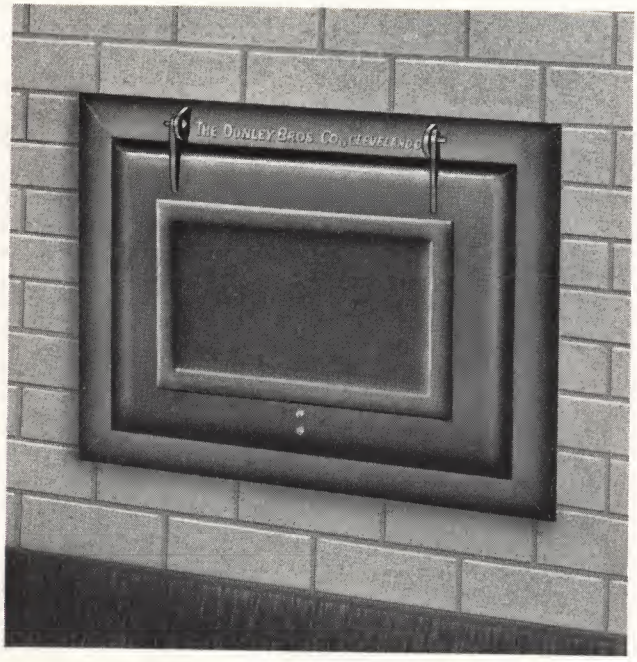
Caulking Compound in Cartridge. A cartridge with nozzle, which provides a clean and economical unit for easy loading of caulking gun. (Saves 35% labor and 5 to 10% material). Individual nozzle means no

caulking can touch inside of gun barrel or cap. This avoids waste and eliminates the nuisance of cleaning gun after each operation. Cartridge will caulk 20 to 25 lineal feet. Packed 10 to carton, shipping weight 15 pounds.

Commercial Cartridge. For large scale operators, a commercial cartridge is available without a nozzle, at lower cost. These cartridges are packed 50 to a carton, shipping weight 70 pounds.



Caulking Guns. This gun has a smooth swivel action and maximum strength with light weight and better balance. Improved washer construction gives better suction when used with bulk compound. Gun may be used with bulk or cartridge, is regularly furnished with ⅜″ nozzle. Other sizes of guns and nozzles available, information given on request.

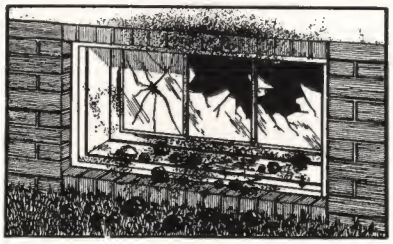


No. 19 or 113 Coal Chute, shown here, has a copper steel frame and a pressed steel door. It is strong and sturdy and presents a neat appearance. Hopper is optional on No. 113.

No. 48 Coal Chute has glass held in place over cork cushion by spring clips. No putty is used. Frame is of copper steel. Shield protects glass when open. No. 712 is similar in construction but larger.

Donley Foundation Coal Chutes

This



Not This!

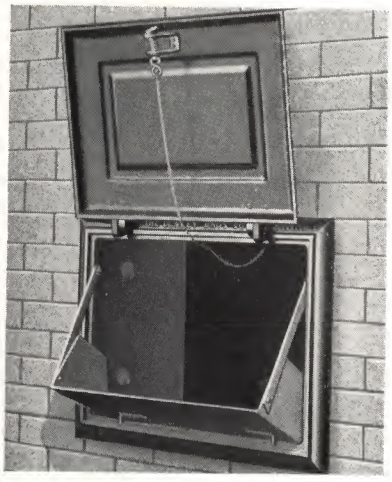
For a Clean Foundation. A Donley Foundation Coal Chute protects the foundation of a new home from the disfiguring scars and dirt of coal deliveries. The strong metal frames of these chutes cannot be broken by flying pieces of coal and the doors when opened protect the siding or masonry wall above the chute from damage. The attractiveness of Donley Coal Chutes is shown in the photographs on this page.

More Convenient—Burglar Proof. Other advantages of the Donley Coal Chute are the greater convenience for the home owner and protection against burglars. The automatic spring lock on Donley Coal Chutes is released from inside the house by a chain pull fastened to the lock. After a coal delivery has been made, the coal man closes the door and the lock snaps into place. This lock on the inside of the door is proof against forcing by thieves.

Where Furnace Burns Gas or Oil. Even when a home is to have an oil or gas furnace, a coal chute should be provided for deliveries of coal or wood for use in the fireplace. For this reason the coal chute should be included in every new home.

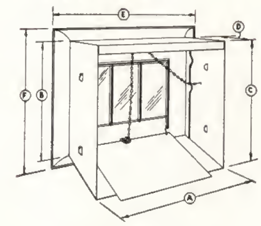
Description. Donley Coal Chutes are made in sizes and for wall thicknesses as listed in table on the next page. All these coal chutes have bodies made of rust-resisting copper steel. Frames and hinges are malleable iron or copper bearing steel. The hinges are made so that the door is held open in vertical position to protect the wall above the chute. Automatic spring locks have chain pulls for releasing the latch from the inside. The solid metal doors are formed from heavy gauge steel and are attractively paneled. Glass door chutes are also formed of heavy steel and the three panes of glass are protected with a shield when door is open, yet are easily replaced if broken.

The sizes of glass doors are listed, both having three-lights with the glass bedded in cork, held in place by clips made of oil tempered steel, Parkerized to resist rust.



Thirteen Models of Donley Foundation Chutes

Order by No.	Description		Rough Wall Openings			Bottom of Chute	Shipping Weight	Hoppers
	Door	Frame	Wide	High	Deep			
19	Solid Steel	Copper Steel	24″	17″	8″	Straight	31 lbs.	None
29	Solid Steel	Malleable	24″	17″	8″	"	37 "	"
48	Clear Glass, 3 Lts.	Copper Steel	24″	17″	8″	"	40 "	"
39	Clear Glass, 3 Lts.	Malleable	24″	17″	8″	"	50 "	"
113	Solid Steel	Copper Steel	24″	17″	12″	Slanting	37 "	Optional
213	Solid Steel	Malleable	24″	17″	12″	"	43 "	"
313	Clear Glass, 3 Lts.	Malleable	24″	17″	12″	"	55 "	"
613	Solid Steel	Malleable	32″	22″	12″	"	81 "	"
713	Clear Glass, 3 Lts.	Malleable	32″	22″	12″	"	88 "	"
612	Solid Steel	Copper Steel	32″	22″	12″	Straight	60 "	None
712	Clear Glass, 3 Lts.	Copper Steel	32″	22″	12″	"	65 "	"
617	Solid Steel	Malleable	32″	22″	17″	Slanting	90 "	Optional
717	Clear Glass, 3 Lts.	Malleable	32″	22″	17″	"	97 "	"



Ordering Right Size

The diagram above, with letters referring to the table below, will aid you in determining the exact size of chute required for your situation. The chute represented is a slant bottom model, but the dimensions given apply to both horizontal and slant models. This table should be supplemented by careful reading of the table in the previous column.

Measurements in Inches

Chute No.	A	B	C	D	E	F
19, 29, 39 and 48	22	16	16	8	25	19
113, 213 and 313	22	16	18½	12	25	19
612 and 712....	30½	21	21	12	34½	24½
613 and 713....	30½	21	23	12	34½	24½
617 and 717....	30½	21	25½	17	34½	24½

Types of Foundation Chutes

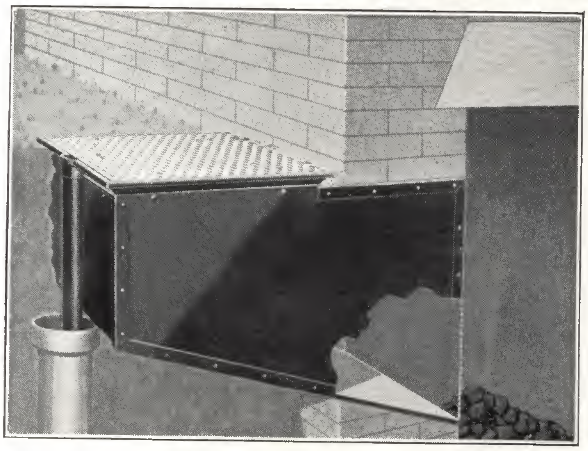
The table above lists thirteen different types of Foundation (or Wall) Chutes. They differ in regard to the doors, whether solid metal or glass, also as to slanting or straight bottoms, as to the availability of hoppers and also as to dimensions.

Glass Doors—The doors of glass door models are fabricated from steel sections. They contain three panes of glass bedded in cork and held in place by special steel spring clips.

Frames—Five of the chutes listed have copper steel and eight have frames of malleable iron. The bottom of the chute may be straight or sloping, according to the kind ordered.

Hoppers—Increasing use of slide chutes by delivery men has lessened the demand for a hopper on the Donley Coal Chute. However, hoppers are optional on six numbers indicated and omitted entirely on the rest, as shown in the table above. Order by number.

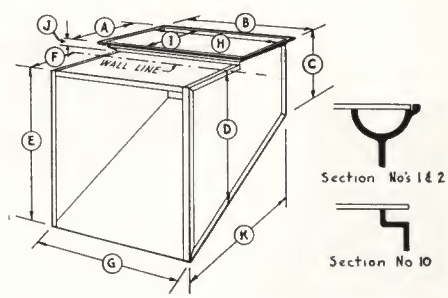
Grade Line Coal Chutes



Many charming homes are built with floors near the ground level, making it impractical to use the types of chute previously described. For such, is the Donley Grade Line Chute, with horizontal opening at the level of the lawn or drive. It is also useful for stores or business buildings.

This chute has the same protective advantages as the foundation chute. When coal is delivered, its door turns up against the building, shielding it from flying fuel. Its automatic lock is released from the inside by pulling a chain from a point outside the bin. The heavy malleable iron frame on No. 1 and No. 2 is made with a gutter to prevent water entering cellar. Frame on No. 10 is a special steel section welded at the corners, which door overlaps. Lip prevents water entering cellar. The gutter of No. 1 and No. 2 has an outlet outside the chute, which may be connected by a pipe to a drain tile and thus to the house drain. Pipe connection is furnished without extra cost, but only when ordered.

The door of the chute is made of checkered steel, affording a good foothold and capable of supporting ordinary sidewalk traffic. The frame and hinge are of malleable iron with hinge pins of brass. Shipping weight, No. 10, 100 pounds; No. 1, 145 pounds; No. 2, 210 pounds.



Dimensions Grade Line Chute, Inches

No.	A	B	C	D	E	F	G	H	I	J	K
10 ..	19	19	14	19	24½	13	19	19	19	1¾	34½
1 ..	21	26¼	14¾	19½	24½	13	24½	25¼	20	2½	34½
2 ..	27	32¼	17¾	24¾	30½	15	30½	31¼	26	2½	42½

In ordering the Donley Grade Line Coal Chute please consult dimensions in the above table and order by number.

Mail Receiver

PRIVATE MAIL SERVICE is a modern convenience that should be included in every home by means of a Donley Built-In Mail Receiver. This mail receiver is a metal chute with a door at each end that connects the inside and outside walls of the home, usually close to the front entrance. The postman deposits the mail in the chute through the outside door—the housewife removes the mail from the inside of the home. Mail is protected from the weather and remains in the receiver until, at her leisure, the housewife removes it—without any bother and without stepping outside the house.

It is a great convenience to the home owner, gives complete protection to the mail and is a more attractive mail receptacle.

There are three general types of Donley Mail Receivers as shown below. At the left is the Number 9 Receiver, the most recent model, a chute body type designed for both the narrow and wide wall space. It has a pressed bronze outer door and frame, carefully designed and made to be waterproof. Regularly finished in dark antique brass color. At the right is Number 3 box type with large mail capacity and horizontal door. In the center are Numbers 1 and 2 chute types with horizontal door. Numbers 1, 2, and 3 have an outer door of cast bronze (light) in natural finish. All types are available for both brick and frame or stucco construction. They have galvanized steel bodies and pressed steel inner doors. There are no springs or other parts to get out of order, no keys to lose. These mail receivers are weather-proof, easy to install, attractive, low in cost and will not rust. Types for frame construction are designated with an "F," brick or masonry types with a "B." Donley Mail Receivers are completely assembled and carefully packed in individual cartons with simple directions for installation.

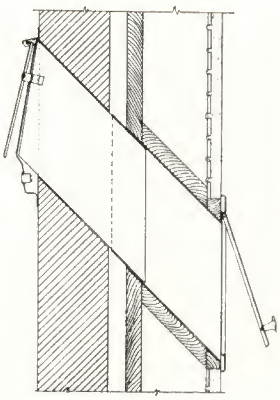


Fig. 1

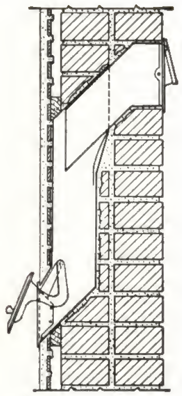


Fig. 2

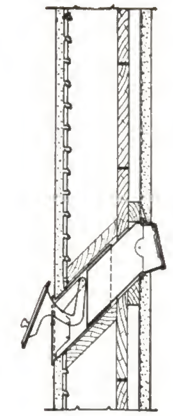


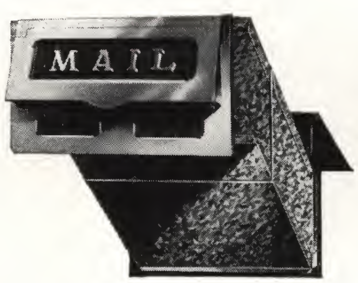
Fig. 3

F Indicates for Frame Construction; B for Brick

No.	For Wall Thickness	Mail Opening		Shipping Weight
		Width	Height	
9-F	5″ to 9″	3″	6″	6 lbs.
9-B	9″ to 14″	3″	6″	6 "
1-F	5″ to 9″	5″	2½″	6 "
1-B	9″ to 14″	5″	2½″	6 "
2-F	5″ to 9″	8¾″	2½″	8 "
2-B	9″ to 14″	8¾″	2½″	8½ "
3-F	5″ to 9″	8¾″	2½″	10 "
3-B	9″ to 14″	8¾″	2½″	11 "

Note: All models are available with name card holder and electric push button at small extra cost.

No. 1-F, above, has a mail opening 5″x2½″.



No. 2-B, with mail opening 8¾″x2½″. No. 1-B is similar but opening is 5″x2½″.

No. 9-F mail receiver with card holder and electric push button.

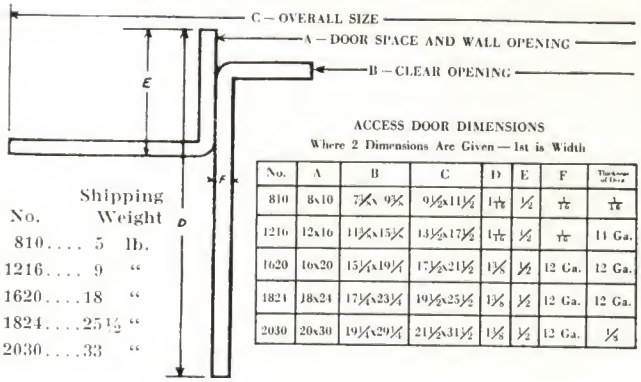
No. 2-F, opening 8¾″x2½″.

No. 3-F box type receiver. No. 3-B has a larger, deeper body and an outer door like that shown above left.

Access Doors

TO REACH CONCEALED PLUMBING Donley Access Doors save tearing out of plaster to reach hidden plumbing, wiring or steam pipes. Set flush with the wall they may be calked and painted or papered over, remaining practically invisible at all times. When repairs are necessary, they open easily for quick access to concealed plumbing. The unit consists of frame and door. The frame is made of two welded angles, its outer and inner edge perforated for plaster key and easy nailing. Door is made from furniture quality steel, finished in gray priming coat. It is held in place by two lugs at the bottom and by interior button catch at the top. This catch is opened by turning a screw driver inserted in the slot. The door then falls outward at the top and is easily lifted from the lower lugs, leaving the opening clear. See drawing and table of dimensions below. Made in five sizes. Please order by number.

Made in 5 sizes. Order by number

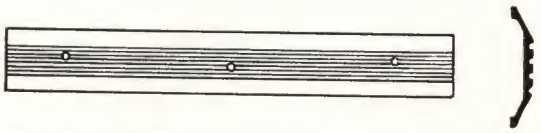


ACCESS DOOR DIMENSIONS
Where 2 Dimensions Are Given — 1st is Width

No.	A	B	C	D	E	F	Thickness of Door
810	8x10	7⅞x 9⅞	9½x11½	1⅛	½	1/16	1/16
1216	12x16	11⅞x15⅞	13½x17½	1⅛	½	1/16	11 Ga.
1620	16x20	15⅞x19⅞	17½x21½	1⅛	½	12 Ga.	12 Ga.
1824	18x24	17⅞x23⅞	19½x25½	1⅛	½	12 Ga.	12 Ga.
2030	20x30	19⅞x29⅞	21½x31½	1⅛	½	12 Ga.	⅛

No.	Shipping Weight
810	5 lb.
1216	9 "
1620	18 "
1824	25½ "
2030	33 "

Donley Metal Thresholds



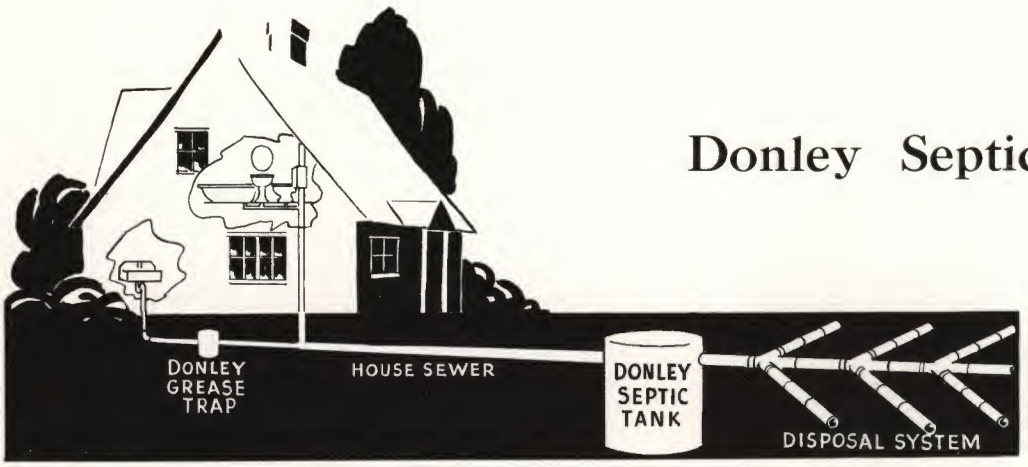
When thresholds of wood or masonry wear away under constant use, a drafty, unsightly doorway is the result. Donley Metal Thresholds of cast iron, extruded brass or aluminum defy wear for long periods. They assure a close fit at the bottom of the door, and at the same time allow the door to swing clear of the rug or carpet. The photograph below shows the simplicity of the installation. Supplied cut to length with countersunk screw holes and No. 12, 1½" screws. Brass screws furnished with cast iron and brass thresholds; aluminum screws with aluminum thresholds.

Material	Width	Vertical Height	Shipping Weight Per Foot	Length Up To
Cast Iron	4"	½"	3.8 lbs.	10 feet
Extruded Brass	4"	½"	3 "	16 "
Aluminum	4"	⅝"	2¼ "	21 "

Metal Building Corners

Carpenters save time in applying siding by using these Donley Galvanized Building Corners. They eliminate the need of corner boards which require extreme accuracy in fitting siding and also eliminate mitering of the siding. Just saw the ends square and the metal corners furnish a neat, uniform joint. Made in sizes for various widths of siding, they come packed 250 to a carton.

No.	For Siding	Size Over All	Weight per 100
1	6x½"	6"	10
2	8x½"	8"	15
3	8x¾"	8"	16
4	10x½"	10"	18
5	10x¾"	10"	20



Donley Septic Tank

For Cottages, Country Homes and Camps

Above is shown general layout of sanitary system for rural home, illustrating relation of parts, but not to be taken as an exact guide. Dimensions, etc., are furnished in instructions with tank.

Private Sewage System for homes not reached by public sewers, the Donley Septic Tank offers a safe, effective and economical sanitary system. A septic tank installation does its work out of sight, beneath the soil, is free from offensive odors, needs no chemicals and requires no attention for long periods.

Gives City Convenience. Country life has many charms but too often these charms are offset by poor sanitary arrangements. By means of the Donley Septic Tank, your rural home may have the convenience of a home in the city, including a bathroom in which you can take great pride. Many thousands of rural dwellers and cottagers have proved the complete practicability of this type of sanitary system.

Made for long service—the Donley Septic Tanks are made for those who appreciate differences in value. They are made of 14 gauge copper bearing steel. Of utmost importance is the protection to the steel accomplished by a thick overall coating of asphalt. This is applied by dipping the Tank in **hot** asphalt, thoroughly covering all parts both inside and out.

The interior is designed in accordance with the latest approved principles developed by sanitary engineers.

Though hidden from view the inner parts are full thickness and size and thoroughly protected. A flanged lid is held in place with three strong bolts. Inlet and outlet connections are made for pipe six inches in diameter and any mechanic can readily adapt them to any other size of pipe used.

How it Operates. The inflow from the house sewer is into the larger, sludge chamber where the solids are dissolved and bacteria action begins. As the

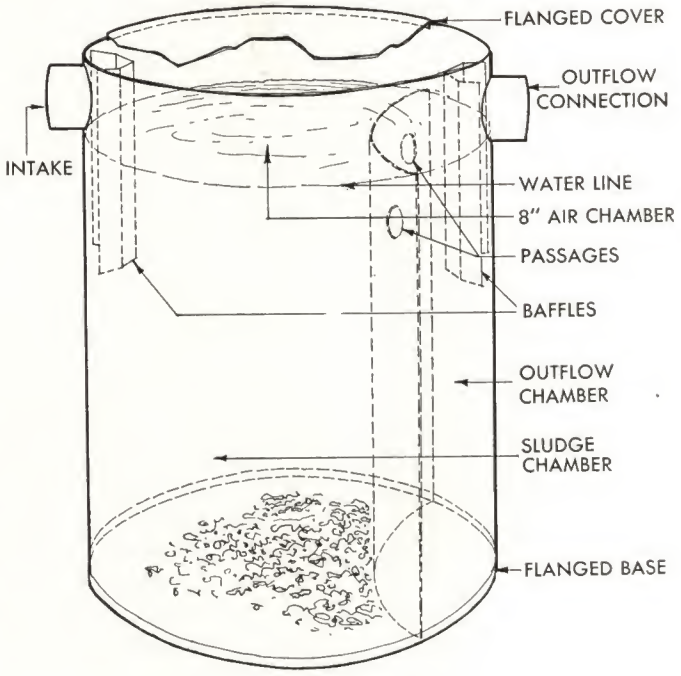


Table of Capacities, Uses and Dimensions

Order by Number	Dimensions		Working Capacity in Gals.	Number Persons Served			Shipping Weight
	Diameter	Height		Home	Factory	School	
1	30½"	48"	150	4	6	7	175 lbs.
2	38"	48"	200	7	10	13	222 "
3	47"	48"	300	11	15	20	300 "
5	48"	72"	500	20	30	35	400 "
10	60"	*96"	1000	50	60	60	900 "

*Note: On unit No. 10 this dimension is horizontal and indicates the length.

bacterial action continues the liquid passes into the outflow chamber for further purification before passing into the outflow tile and disposal bed. This prolonged action is possible only because of the inclusion of TWO chambers.

Directions for installing the Donley Septic Tank and methods of laying tile disposal system under different conditions are attached to each tank. If in doubt about size of tank to choose, it is preferable to select the larger one.

Grease Traps

Grease interferes with the septic action in a septic tank. For this reason it is advisable to remove excessive grease from the waste water by means of the Donley Grease Trap.

Since excessive grease is usually from the kitchen sink, the grease trap is placed in the line, between sink and septic tank (see sketch at top of page 30). Because it requires an occasional cleaning, it should be accessible for cleaning with a minimum of trouble.

Construction of the grease trap is similar to the septic tank, being made of 14 gauge copper bearing steel. Also, it is thoroughly protected inside and out by a thick asphalt coating over all surfaces, applied by the hot dip process.

Trap is flanged at top and bottom for extra strength. Two substantial bolts hold the top in place and the inlet and outlet have threaded connection for 2″ standard pipe. Diameter is 23″, height 24″. This provides 63% more capacity than the frequently used 18″x24″ size. For that reason less frequent removal of grease is necessary. Quality construction assures the user of long service and a minimum of care.

Donley Underground Garbage Receiver

Beautify your Backyard. The increasing use of the backyard as a summer gathering spot for the family and friends has created a greater demand for this Donley Underground Garbage Receiver. Consider a few of the advantages of this modern garbage receiver in contrast to the old, unsightly, odorous garbage can—(1) It is hidden from sight, underground, only an inconspicuous, grass-green top being visible in the lawn or cement area. (2) It is protected from frost—(3) no destructive hammering of the container to free contents. (4) It is opened by a foot lever so that both hands can be occupied while emptying refuse. (5) Dogs cannot spill the garbage. (6) Its tight lid seals in odors which draw flies, other insects and rats. (7) Two piece top prevents garbage falling between pail and outer shell.

At left is Receiver with top open showing how pail is removed for emptying. View above shows Receiver with top closed. The two views illustrate two of the four sizes available.

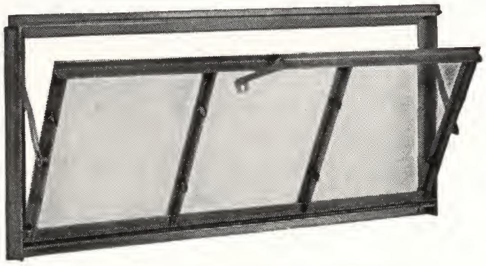
Donley Garbage Receivers are the product of 25 years of experience in the manufacture of underground garbage receivers. They are of three sections—outer shell, top and inner pail. The outer shell is made of 16-gauge copper alloy steel, corrugated top and bottom for strength, and stiffened at the bottom with galvanized cross rods. The inner pail or container is made of copper alloy steel, galvanized after fabrication which means that it is protected at every crevice. A slight taper gives ample clearance and special attachment of handle makes it easier to take out or put back.

The top is in two parts, made of steel to insure long life and the greatest strength with the least weight. This lighter weight is appreciated when opening the lid by foot pressure. The large, convenient opening is eleven inches in diameter and the cover, which is hinged to the outer container, is raised only when the pail is removed. These receivers give satisfaction for years and are endorsed by the Good Housekeeping Institute.

Order by No.	Cap. Gal.	Size of Pail		Dia. of Top	Overall Height	Shipping Weight
		Dia.	Height			
109	9	15″	16″	17″	19″	37½ lbs.
112	12	15¾″	18″	17″	22″	42½ “
115	15	15¾″	23″	17″	26″	47 “
121	21	16¾″	25⅝″	18″	28½″	70 “

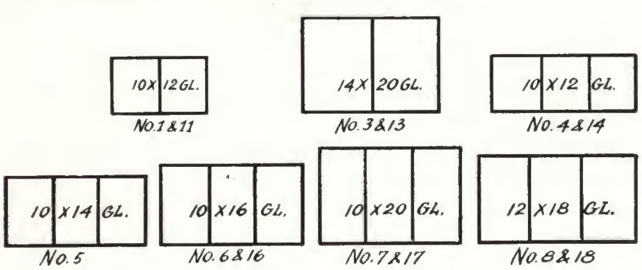
Donley Steel Basement Windows

Bottom Opening (Hinged at the Top)



Top Opening (Hinged at the Bottom)

For maximum light in the basement and resistance to deterioration, use Donley Basement Windows. There are two styles of Donley Windows available, bottom and top opening. They are made of ⅛″ thick, hot rolled steel members, welded together to make a durable, trouble-free window. The top opening type resists burglars even when left in the open position (see illustration).



Glazing with Jiffy Clip

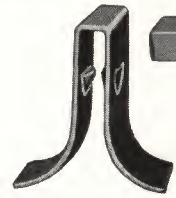
Put glass in place

Take a jiffy clip

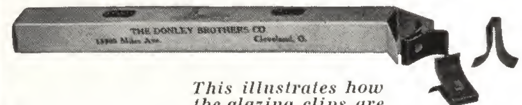
And just snap it on

Sash of Donley Basement Windows are faced with cork, glued in place as a cushion for the panes of glass and each pane rests on a cork strip at the bottom. The glass is held in place with spring steel "Jiffy Clips," or with ordinary glazing mastic. Jiffy Clips are Donley's solution to quick, easy glazing. The cartoons above show how simple this operation is. Each pane of glass is held in place by these clips—a strong, neat, clean method of glazing.

The clip is sprung into place and held by grooves in the T-section that coincide with the projections in the clip. The clips, shown below, are of tempered spring steel and rust-proofed by the Parker process.



Actual Size



This illustrates how the glazing clips are packed. One of these packages, containing a set of clips, is securely attached to each window.

Sizes and Dimensions. In ordering, indicate size desired by giving number as shown in table below. Use column headed Masonry Opening in choosing size needed.

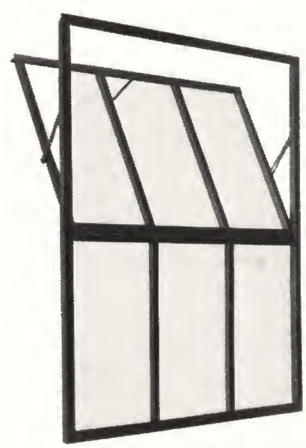
Bottom Opening Type

No.	Glass Size	Masonry Openings	Overall Dimensions	Ship. Wt.
1	2 light—10x12″	22¾x15″	23¾x15½″	14 lbs.
3	2 light—14x20″	30¾x23″	31¾x23½″	21 "
4	3 light—10x12″	33¼x15″	34¼x15½″	19 "
5	3 light—10x14″	33¼x17″	34¼x17½″	21 "
6	3 light—10x16″	33¼x19″	34¼x19½″	22 "
7	3 light—10x20″	33¼x23″	34¼x23½″	23 "
8	3 light—12x18″	39¼x21″	40¼x21½″	24 "

Top Opening Type

No.	Glass Size	Masonry Openings	Overall Dimensions	Ship. Wt.
11	2 light—10x12″	22¾x15″	23¾x15½″	14 lbs.
13	2 light—14x20″	30¾x23″	31¾x23½″	21 "
14	3 light—10x12″	33¼x15″	34¼x15½″	19 "
16	3 light—10x16″	33¼x19″	34¼x19½″	22 "
17	3 light—10x20″	33¼x23″	34¼x23½″	23 "
18	3 light—12x18″	39¼x21″	40¼x21½″	24 "

Utility Windows

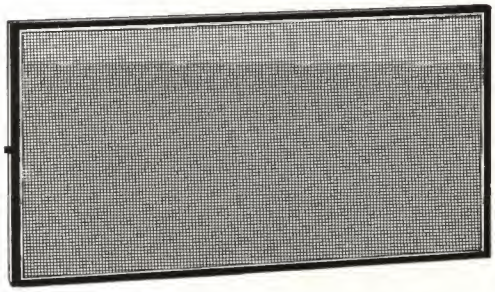


Donley Utility Windows fill a widespread need for a general purpose, sturdy, metal framed window of simple design. Their construction is similar to the Donley Basement Window but only one part is designed to open. The ventilator part is at the top in the six light size and in center of the nine light size.

Donley Utility Windows are widely used in garages, studios, shops or for any other purpose where a spacious, strongly-built window is required. These windows are to be glazed with putty, and for this purpose, glazing clips are furnished with each window.

Order by No.	Number Lights	Nominal Glass Size	Masonry Openings	Overall Dimensions
21	6	10x16″	33 x34½″	34 x35½″
22	6	12x20″	37¼x42½″	38½x43½″
32	9	12x20″	37¼x62¾″	38½x64″

Screens for Donley Windows



When you order Donley Basement or Utility Windows, be sure to provide screens to fit. The Donley Screen is designed for fastening to the outside of the window in all sizes listed.

Screens are made of close mesh, bronze wire framed with steel and are complete, ready to install. Two bolts hold the screens securely fastened in place from the inside, where an intruder cannot unfasten them. You will have no trouble with flies when you ventilate your basement or garage, no difficulty with loose, ill fitting screens.

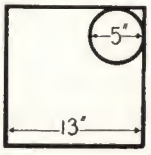
Steel Clothes Posts

Donley Clothes Posts are so trim, so inconspicuous with their grass-green paint that they are seldom noticed except on wash day. They are made of reclaimed pipe, 2¾″ in diameter, 9½′ in length with a cross rod at the top for attaching the line. Donley Clothes Posts cost less than wooden posts and have every advantage of strength, neatness and resistance to weather. It is recommended that they be set in the ground in concrete, although the concrete is not absolutely necessary. Posts may be ordered with or without the ornamental cast iron top. Post with top, 38 lbs.

Wall Plug

Donley Wall Plugs are needed wherever wood members must be nailed to the masonry wall. They are the standard method of attaching wood furring to support lath on wall board. Also used in application of woodwork, wainscoting, etc. Deeply corrugated, heavy galvanized, they afford a sure grip on the nail and resist corrosion. Side construction excludes mortar. Shipping weight, 100 pounds per 1000.

Steel Basement Columns



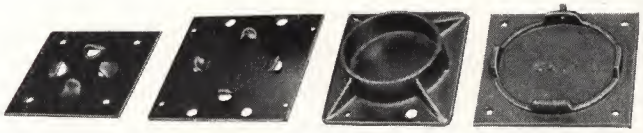
Save Basement Space. The square at the right represents the floor space taken up by an old fashioned brick column in the basement. The circle within shows by comparison the space taken by a five-inch Donley Basement Column. Donley Columns are strong, economical, neat in appearance, easy to install and require less space. Made of steel pipe, thoroughly painted, they are available in 4″ and 5″ diameters in four standard lengths. Special sizes cut to order.

Donley Basement Columns are regularly shipped with pressed steel caps and bases unless otherwise specified.

Length	Ship. Wght.		Length	Ship. Wght.	
	4-In.	5-In.		4-In.	5-In.
6′	34	65	7′	40	75
6′ 6″	37	70	7′ 6″	43	80

Special lengths cut to order.

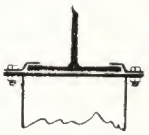
Column Caps and Bases



No. 1 No. 3 No. 5 No. 7

Numbers 1 and 3 are of steel as regularly supplied. No. 5 is made of C. I., is 6″x6″ for 4″ columns, has holes for nailing and for ½″ bolts. Can be had with set screw at small extra cost. No. 7 is C. I., is 7″x7″ for 5″ columns, has flange and set screw.

Drawing at right shows method of fastening steel plate to steel I-beam with special Donley clips—not necessary to drill the beam.



Donley Wall Ties

Use Donley Wall Ties for tieing face masonry to backup wall or securing veneer to wood backing. Made of heavy galvanized steel ¾″ wide and 7″ long, deeply corrugated with holes in one end so that they may be nailed to wooden wall in attaching brick veneer. Shipping weights, 35 pounds per 1000 for the standard and 48 pounds per 1000 for the extra strong.

Burn Garbage and Trash

in a

Donley Incinerator

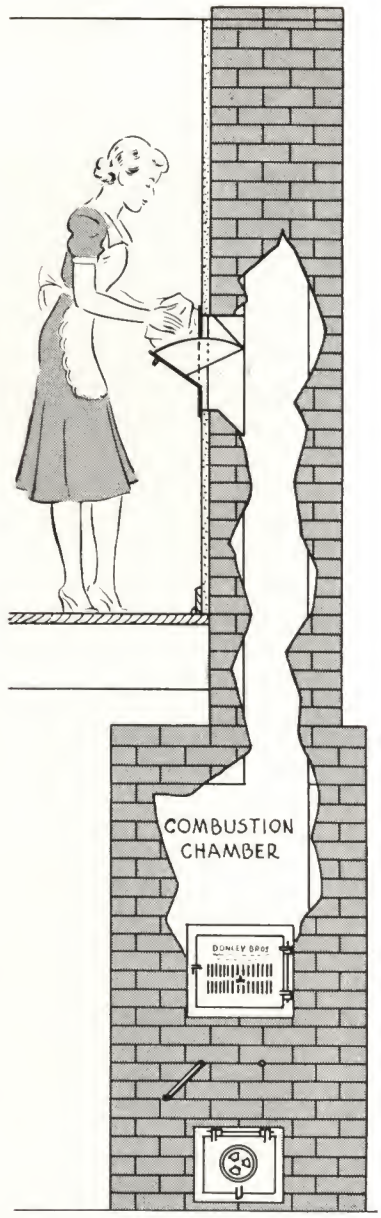
The quick, neat, most satisfactory way to dispose of waste, garbage and trash is by use of a flue fed Donley Incinerator. This incinerator is designed and built to give years of satisfaction and trouble-free operation. The owner has a right to expect such long life and durability in a product of this kind and Donley Incinerators meet that expectation. Owners appreciate these qualities and the avoidance of costly repairs in equipment of such importance. A Donley Incinerator usually costs nothing to operate since trash and wastes are sufficient fuel.

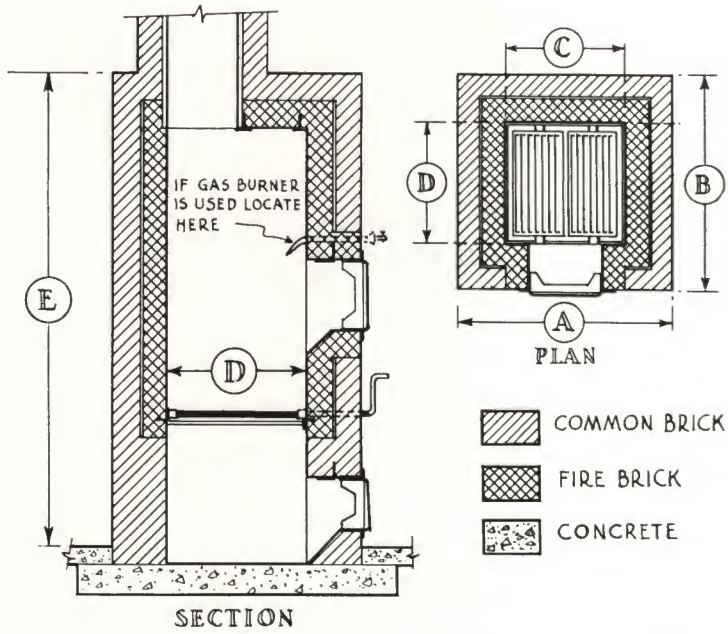
The nine sizes available fit anything from a five-room cottage to a large apartment, hospital, school or store. (Incinerator is installed in building during construction but can be built into a finished house if there is a flue available. In the latter case, however, trash is fed through fire door in the basement instead of being fed through the flue).

Description. The Donley Incinerator consists of the metal equipment supplied by us, and the brick work installed as a part of the regular masonry contract. The latter consists of a brick box in the basement and a chimney that also serves as a chute for the garbage. Metal equipment includes fire door, ash door, grates, grate frame, crank, roof irons and chimney screen. Receiving hopper doors are priced separately as the number required varies, one or more being required for each incinerator.

Operation is simple and calls, normally, for no added fuel. Where wastes are unusually moist (as fruit store) or where conditions may cause slow drying, a gas burner is recommended. (These burners are included on order at small extra cost). Garbage, wrapped in paper, is dropped through receiving door to the grates where it accumulates and dries. Once or twice a week, fire door is opened and match applied. After burning, grates are dumped and ashes, with unburnable trash, removed periodically.

Installation is made by the mason with the aid of details and directions which we furnish. Every structural feature has been designed to avoid need of special supervision of construction and subsequent servicing. Table on the next page will aid you in determining the size suitable for your use.





THE DONLEY BROTHERS CO.

Table of Incinerator Sizes, Equipment and Data

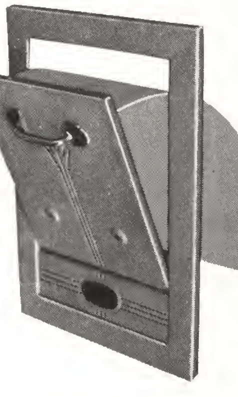
Incin-erator No.	Recommended Use	INCINERATOR DIMENSIONS: Outside Dimensions of Brickwork A	B	Inside of Combustion Chamber C	D	Height Outside E	Minimum Inside Size of Flue to Use	INCINERATOR EQUIPMENT: Number and Size of Grates	Size of Fire Door	Size of Ash Door	Ship. Wt. Lbs.	Receiving Hopper Door Recom-mended	BRICK REQUIRED TO BUILD (Includ. 5% Allowance for Waste): Based on Wall Thick-ness	Height	Com-mon Brick	Fire Brick
24	Res. 5 to 7 Rooms	36½″	36½″	18½″	18½″	6′6″ to 7′2″	*11¼x11¼″	1–15½x15½″	14x11″	11½x 9″	163	No. 1	9″	7′0″	550	340
35	Res. 5 to 10 Rooms	40¾″	41″	22¾″	23″	6′6″ to 7′6″	*11¼x11¼″	2– 9½x20″	14x11″	11½x 9″	217	No. 1 or 2	9″	7′0″	675	380
45	Res. 8 to 14 Rooms Apts. to 18 Rooms	52¾″	36½″	34¾″	18½″	6′6″ to 7′6″	*11¼x11¼″ If 2 Fls. †15¾x15¾″	2–15½x15½″	14x11″	11½x 9″	192	No. 1 or 2	9″	7′0″	765	430
68	Large Residences Apts. 18 to 40 Rms.	50¼″	48¼″	32¼″	30¼″	6′6″ to 8′2″	†15¾x15¾″	2–14¼x27¼″	14x11″	14 x11″	310	No. 2-3-4 see note	9″	8′0″	980	575
86	Apts. 40 to 80 Rms. Hosp. under 50 Beds Schools under 300 Students Small Stores under 6 Group	53¾″	52¾″	35¾″	34¾″	6′6″ to 8′2″	†15¾x15¾″ If 5 Fls. & over 20x20″	2–16 x31¾″	22x18″	14 x11″	456	No. 2-3 or 4 see note	9″	8′0″	1080	640
99	Apts. 80 to 120 Rms. Hosp. 50 to 90 Beds Schools 300-500 Students Small Stores 6-8 Group	65½″	48¼″	47½″	30¼″	6′6″ to 8′2″	†15¾x15¾″ If 5 Fls. & over 20x20″	3–14¼x27¼″	22x18″	14 x11″	509	No. 2, 3 or 4 see note	9″	8′0″	1160	682
127	Apts. 120-160 Rms. Hosp. 90-120 Beds Schools 500-700 Students Small Stores 8-10 Group	78¾″	60¾″	52¾″	34¾″	7′6″ to 8′6″	Same as No. 99	3–16 x31¾″	22x18″	2–14x11″	663	No. 2, 3 or 4 see note	13″	8′0″	2480	810
131	Apts. 160-240 Rms. Hosp. 120-180 Beds Schools 700-1000 Students Sm. Stores 10-15 Group	88¾″	56¼″	62¾″	30¼″	6′6″ to 8′2″	Same as No. 99	4–14¼x27¼″	22x18″	2–14x11″	643	No. 2, 3 or 4 see note	13″	8′0″	2500	823
167	Apts. 240-320 Rms. Hosp. 180-260 Beds Sch. 1000-1200 Students Sm. Stores 15-18 Group	95¾″	60¾″	69¾″	34¾″	7′0″ to 8′6″	20x20″ If 5 Fls. or Over 24x24″	4–16 x31¾″	30x24″	2–14x11″	855	No. 2, 3 or 4 see note	13″	8′0″	2840	926

*Standard 13x13″ flue lining (outside measure)
†Standard 18x18″ flue lining (outside measure)

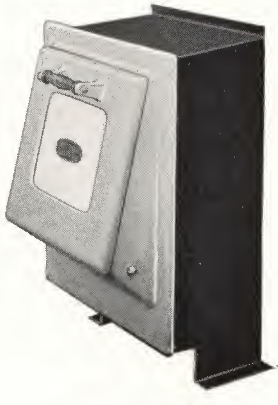
Note on Capacity—Cubic foot equals .808721 bushels.

Notes on Receiving Hopper Doors—For stores, use No. 4. Where two or more families use same Receiving Hopper Door, use No. 3 or No. 4. Shipping weights of Receiving Hopper Doors, No. 1, 31 lbs.; No. 2, 52 lbs.; No. 3, 67 lbs.; No. 4, 110 lbs. Nos. 1 and 2 are the flush type, Nos. 3 and 4 are the projecting type.

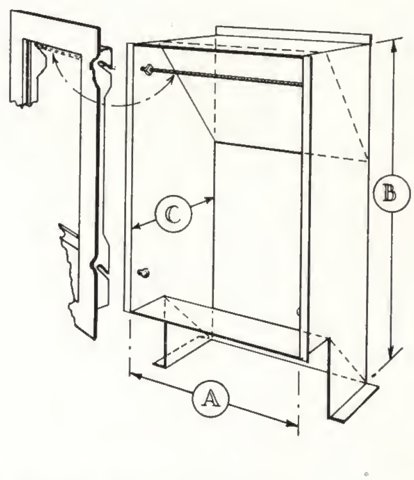
Donley Receiving Hopper Doors



Flush Style



Projecting Style



The Receiving Hopper Door is the part of the incinerator that shows in the living quarters (of the home or apartment). It should be located for convenience in disposing of kitchen waste. Donley receiving hopper doors are available in two styles as shown. The two smaller sizes, numbered 1 and 2 are of the flush type illustrated at left. The larger sizes numbered 3 and 4 are of the projecting type illustrated at right. Both types are furnished in prime coat so they may be finish painted to match surroundings. Special finishes are available at slight extra cost. Information about special quiet door checks furnished on request.

The Receiving Hopper Doors are attractively designed and carefully fitted. They are made of high grade cast iron, of substantial weight to avoid warping. Like the other parts of the incinerator they are made to minimize upkeep and repair expense.

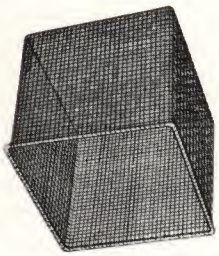
Heavy sheet metal hopper moves with the door, closing the opening to stack when door is opened.

Receiving Hopper Door Dimensions

Hpr. Dr. No.	Wall Body A	B	C	Door and Frame: Frame Overall Width Height	Door Opening Width Height
1	8¾″	19″	7½″	10¾x16″	7⅞x 9¼″
2	11″	23″	9″	13½x18½″	9½x10⅞″
3	13″	23″	9″	15 x19⅛″	12 x11¼″
4	16¾″	26″	9″	19 x22½″	15¼x13½″

Installing Receiving Hopper Doors

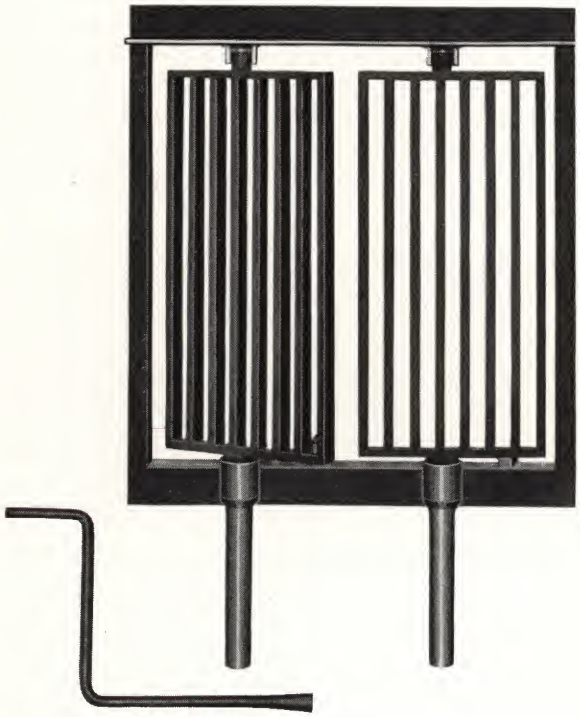
Drawing above right shows how the door frame fits into the wall sleeve. Wall sleeve is permanently fastened into the wall masonry. After plastering and finishing have been completed, door frame is inserted with notches fitting over rod at the top and pins at the bottom. Then the nuts on rod are tightened to hold frame securely to wall sleeve.



Spark screens installed at top of chimney protect from flying sparks.

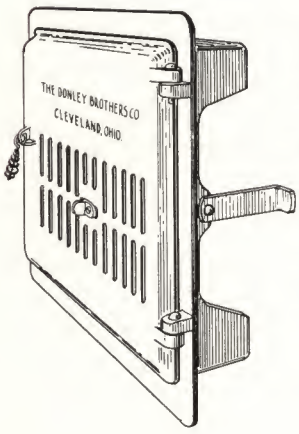
Donley screens are made from heavy wire and galvanized after being formed. Made for flue sizes: 13x13, 18x18, 20x20, 22x22, and 24x24.

Grates Are Easy to Install and Easy to Dump



As shown in photograph above, the grates rest in bearings welded to a steel frame. This frame is built into the brick work, but the grates can be removed or replaced with ease. Positive grate shaking mechanism makes it easy to clear rubbish or ashes from grates after firing.

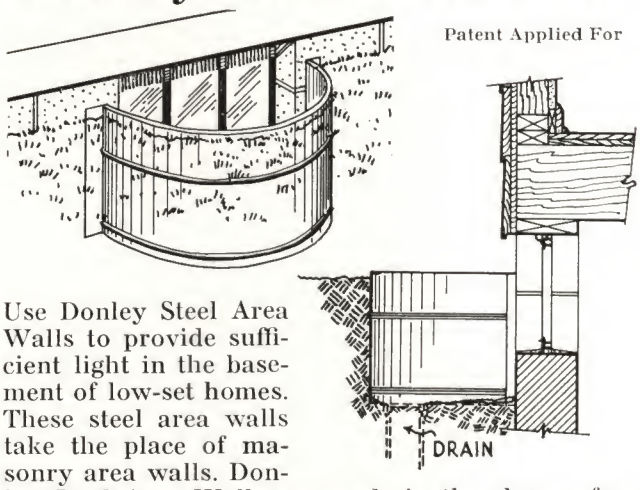
Fire Doors For Donley Incinerators



14x11 fire door with ample free air openings for aeration of refuse. The wire handle is omitted when the door is used as an ash door. Sturdy construction—has secure anchorage to masonry. Other sizes of fire doors are 22x18 and 30x24, the latter having a double door with liner. Ash doors are shown in table.

Donley Steel Area Wall

Patent Applied For

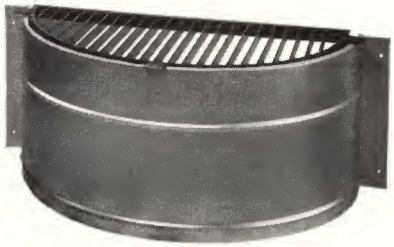


Use Donley Steel Area Walls to provide sufficient light in the basement of low-set homes. These steel area walls take the place of masonry area walls. Donley Steel Area Walls are made in the shape of an arch—designed to resist frost movement. Excavate to required depth, place unit in position and backfill with earth (not cinders). Earth pressure holds wall in place.

Made of 16 ga. copper bearing steel, corrugated and flanged, thoroughly protected with coating of high grade aluminum paint. Made in three sizes, order by number. See below for gratings to match.

No.	Inside Width	Height	For Use With Steel Sash or Windows	Shipping Weight
1	38¼″	17½″	3 light 10x12	22 lbs.
2	38¼″	23½″	3 light 10x16 3 light 10x20	27 "
3	44″	23½″	3 light 12x18	32 "

Donley Area Gratings are made of 1¼″ x ¼″ flat steel bars, welded to 1½″ steel channels. Supporting angles are welded to channels. Made in two standard sizes, No. 5 and No. 10, weighing 42 and 55 pounds. No. 5 fits area walls (above) No. 1 and 2, No. 10 fits area wall No. 3.



Special sizes, curved or rectangular, made to order. In ordering or requesting prices, show sketch with accurate inside measurements of opening.

Flue Thimbles

Cast Iron Flue Thimbles in eight sizes are substantial inlets for the insertion of stove pipe into masonry chimneys. Approximately three inch depths with the following inside diameters:

Diameter in in...	3	4	5	6	7	8	9	10	12
Weight, per doz..	14	20	22	24	28	45	66	73	120

Adjustable Galvanized Steel Flue Thimbles provide economical flue connections. Made in two sizes, 4″ deep. No. 67, adjustable for 6″ or 7″ openings, weigh 85 pounds per gross; No. 678, for 6″, 7″ or 8″ openings, weigh 100 pounds per gross.

Donley Joist Hangers

Provide a strong, safe and economical way of joining the ends of wood joists or beams to supporting members.

Because of the advantages of this method, joist hangers are standardized requirements of good construction. Sizes and weights of Type No. 1 are given in table below.

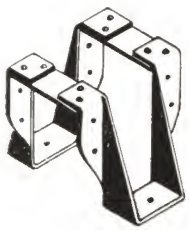
Type No. 1

Type No. 2

Size of Joist In Inches	Size of Steel Used In Inches	Weight in Lbs.
2x 6	2 x 1/4	1.5
2x 8	2 x 1/4	1.8
2x10	2 x 5/32	2.5
2x12	2 1/4 x 5/16	3.4
2x14	2 1/4 x 5/16	4.3
3x 6	2 x 1/4	1.6
3x 8	2 x 5/32	2.2
3x10	2 1/4 x 3/16	2.8
3x12	2 1/4 x 5/16	3.8
3x14	2 1/2 x 5/16	4.9
4x 6	2 x 5/32	2.0
4x 8	2 x 3/16	2.6
4x10	2 1/4 x 3/16	3.0
4x12	2 1/4 x 5/16	4.0
4x14	2 1/2 x 5/16	6.0
6x 8	2 1/2 x 3/16	3.8
6x10	2 1/2 x 1/4	5.7
6x12	3 x 1/4	7.9
6x14	3 x 1/4	8.7
8x10	3 x 1/4	7.6
8x12	3 x 5/16	10.4
8x14	3 x 5/16	11.5

Other Sizes on Request

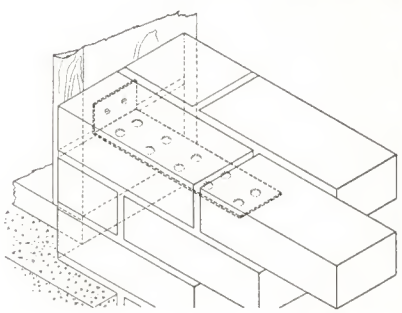
Type 2—Single Joist Hanger—has lengthened upper end to hook over timber or steel beam. Made to order; give size of joist and width of support.



Double Joist Hanger

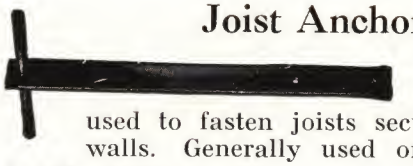
Type 3—Double Joist Hanger. For use where joists are opposite each other and joined to steel beam or wood girder. Made to order; give size of joist and width of support.

Door Buck Anchors

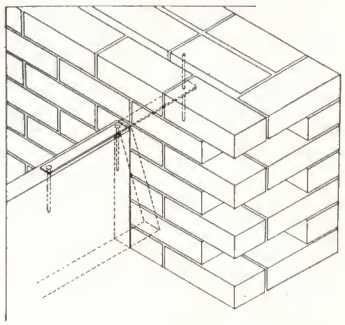


Secure anchoring of jambs or of rough door bucks to masonry walls is easy when Donley Door Buck Anchors are used. They are made of 2x1/16" flat steel with 2" turned up end perforated for nailing. Overall length 12", with larger perforations in the long arm for anchorage in mortar joint. Should be spaced 2' apart. Shipping weight, 42 pounds per 100.

Joist Anchors

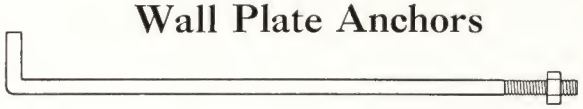


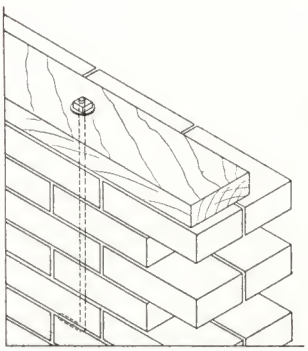
Donley Joist Anchors are used to fasten joists securely to masonry walls. Generally used on every third or fourth joist, to approximate every 3' or 4' along the wall, they should be nailed to the side of a joist. Rod end is imbedded in the masonry. Joist anchors No. 10 and 12 are for anchoring joist to walls that run parallel. Usually placed 4 feet apart. Two sizes: No. 10, pin type as illustrated above, 40" long, engages 3 joists. No. 12, 55" long, with angle bends, engages 4 joists.



No.	Dimensions		Shipping Weight
	Flat Piece	Pin	Per 100 Pieces
1	1 x 3/16 x 14"	6x5/16"	90 lbs.
2	1 x 3/16 x 18"	6x5/16"	110 "
3	1 1/4 x 1/4 x 18"	6x1/2"	180 "
10	1 x 3/16 x 40"	6x5/16"	225 "
12	1 1/4 x 1/4 x 55"	none	520 "

Wall Plate Anchors



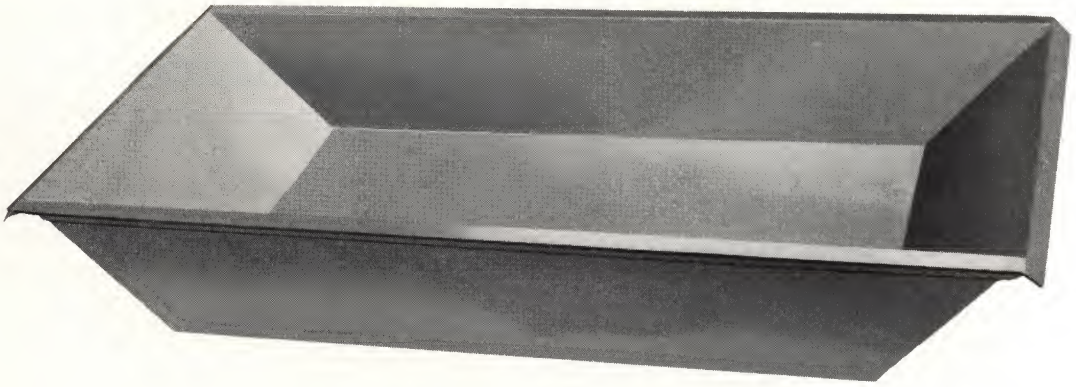


Secure anchorage of sill to foundation or roof plate to brick wall is an important wind and flood safeguard. Donley Wall Plate Anchors are made of 1/2" rods 18" long with a 2" angle at one end and threaded at the other end. Furnished with nut and washer. Shipping weight 120 pounds per 100.

Stone Anchors

Donley Stone Anchors are the standard method of attaching stone to a backup wall. They are made of flat steel 1x3/16" with reversed angle bends at each end and galvanized after forming. Regularly furnished in sizes shown below —other sizes to order.

Number	Length One End	Length Other End	Overall Length	Weight Per 100
536	1 3/8"	7/8"	6 5/16"	50 lbs.
538	1 3/8"	7/8"	8 5/16"	62 "
5310	1 3/8"	7/8"	10 5/16"	72 "
5312	1 3/8"	7/8"	12 5/16"	82 "



Donley Steel Mortar Boxes

Water Tight—Easy to Clean. These sturdy Donley Steel Mortar Boxes do not leak, shrink, swell or become waterlogged as do common wooden boxes.

Donley Mortar Boxes aid accurate mixing of the mortar or plaster, since water is retained instead of being absorbed by the wood or leaking out through cracks.

Best plastering results depend upon thorough cleaning of past mixes from the box. The Donley Mortar Box has a smooth interior, free from rivet heads or projections, therefore thorough cleaning is easy. Contractors report that plaster does not "go dead" quickly when mixed in these steel boxes.

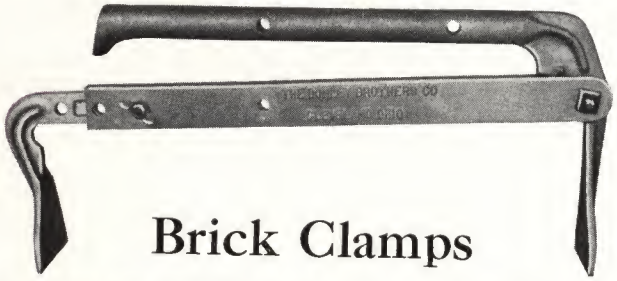
In cold weather the box can be set on brick or tile supports and a fire built beneath to heat the mix. For more accurate temperature control, place a smaller box within a larger one and resting on bricks or blocks. Put water in outer box and use the inner one for mixing. This will keep the mixture warm but well below the boiling point.

Donley Steel Mortar Boxes are made of one piece 14-gauge steel (except Nos. 3 and 4, 16-gauge) securely welded at the joints and reinforced at the top with hot rolled steel angle. They are strong and well made, but are light enough to handle easily. Inverted, they make a handy temporary roof to protect sacks of cement or plaster. Donley Mortar Boxes nest conveniently for storage and when shipped in quantities of three or more, obtain minimum freight costs.

Sizes of Mortar Boxes

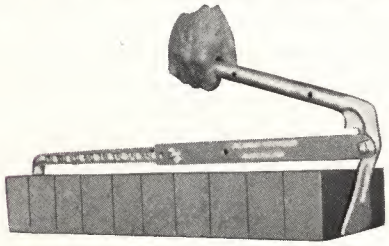
Order by No.	Length	Width	Depth	Cap. Cu. Ft.	Weight
0	11′ 6″	40″	12″	35	250 lbs.
1	7′ 6″	40″	12″	21.66	160 "
2	5′ 10″	34″	10″	11.8	110 "
3	5′ 10″	24″	9″	7.5	80 "
4	4′ 4″	24″	9″	5.37	58 "
*10	8′ 0″	24″	26″	34.6	225 "

*10 Lime Soaking, or Putty Box.

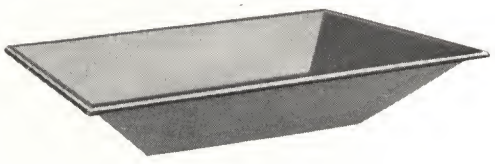


Brick Clamps

Picks up six or more bricks at a time, without damage to bricks. Adjustable from 15 to 25 inch opening. Picks up and discharges load instantly. Soon saves its cost by reducing breakage of bricks and handling time. Made of tough, wear resisting, molybdenum alloy malleable casting. Approximate shipping weight 69 pounds per dozen.



Mortar Tubs



These Donley Steel Mortar tubs or trays, size 23″ x 30″ x 6″, are popular for small jobs such as tile setting and plaster repairs. Masons and plasterers use them instead of a mortar board, tile setters for mixing small batches of cement. They do not leak, shrink, warp or swell. Top edge is curved for hand comfort, flat bottom insures steadiness. Shipping weight, 18 pounds each.

THE DONLEY BROTHERS CO.

Donley Salamanders

For Construction Heating

Add months to the season of profitable building with Donley Salamanders. These substantial, low cost portable heaters maintain proper setting temperatures for plaster and concrete and warm numbed fingers, even on the highest scaffold. They are also in general use as stoves in construction offices and in temporary living quarters of construction labor.

Donley Salamanders will burn any fuel, are built with grates that stay in place and with sides that do not cave in when hot, for they are stiffened by heavy reinforcing channel from top to bottom which also forms the legs. Corrugation near the top provides additional strength.

As shown in the table, tops and ash pans are optional to fit requirements of the job. Tops are equipped with 6″ flue connection and with stove lid. All parts are standardized and are quickly available. Tops, grates and ash pans of No. 118 and 228 are interchangeable. Contractors who standardize on Donley Salamanders soon realize their economy and efficiency.

Supplied in Three Sizes and Four Assemblies

Assemblies	No. 118	No. 218	No. 115	No. 112
With grate	55 lbs.	40 lbs.	35 lbs.	20 lbs.
With grate and top	70 "	55 "	.....	.....
With grate and ash pan	60 "	45 "	38 lbs.	22 lbs.
With grate, top and ash pan	75 "	60 "	.....	.....
Dimensions: Gauge metal	No. 14	No. 18	No. 16	No. 18
Total height	36″	36″	26″	23″
Height shell	24″	24″	18″	15″
Diameter shell	18″	18″	15″	12″

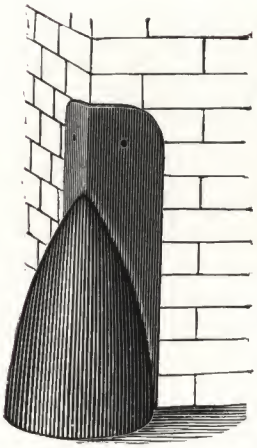
No. 118—Salamander is built for long and severe usage.

No. 218—Salamander is designed and built for temporary or less severe use.

No. 115—Salamander is made for use on scaffolds or out of the way places where lightness counts.

No. 112—Small Salamander, weighs only 20 pounds and stands but 23 inches high, consequently is ideal where extreme lightness and convenience in a salamander are necessary.

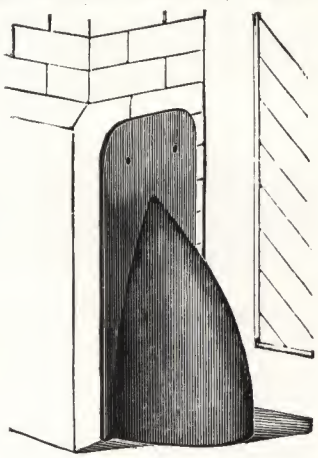
Corner Wheel Guards

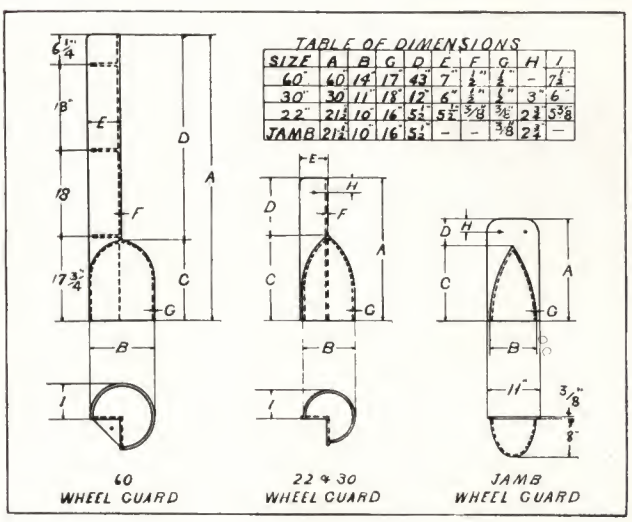


Where driveways adjoin buildings these Donley Corner Wheel Guards protect the building from passing vehicles. Made of heavy cast iron, they deflect any wheel and prevent damage to the corner of the building. They bolt to the corner of the building with two ½″ x 8″ bolts provided with each guard. Made in three sizes, 22, 30 and 60″ in height (see measurements below). Sixty inch type protects against truck bodies or loads. Shipping weights, 50, 85 and 135 pounds respectively.

Jamb Wheel Guards

Similar to the corner wheel guard, the Donley Jamb Wheel Guard bolts against the flat surface of the door jambs for protection of the building. Indispensable in public garages, service stations, warehouses and terminals—as well as valuable in private garages where jamb and door construction permits. It does not diminish the effect of the width of the door, but protects it from vehicles. Its height is 22″ and its projection 8½″. Shipping weight 40 pounds. Attached to jamb by two ½″ x 8″ bolts furnished with each guard.





CLEVELAND, OHIO

Donley Manhole Covers and Frames

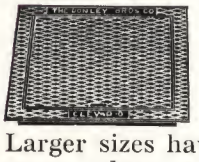
Regular Donley Manhole Covers and Frames fulfil the need for sidewalk inlets, coal holes, meter pits, septic tanks, cistern tops and cesspool covers. Drop handle leaves the top flush when not in use. Locking device released only from below, is furnished as an extra on the 18, 24 and 30″ covers. Safe load at the center, 2000 pounds stationary, 1000 pounds impact.

No.	Cover Descrip.	Cover Diam.	Frame Diam.	Frame Depth	Shipping Weight
1	Solid	*12″	16⅜″	2″	30 lbs.
2	"	18″	23″	2″	62 "
3	"	20″	24¼″	2⅛″	77 "
4	"	22″	26½″	2¼″	100 "
5	"	24″	28¾″	2½″	115 "
6	"	30″	35″	2¾″	190 "

*Without drop handle.

Strainer Covers. Donley Strainer Covers are offered as an alternative to solid covers in 12, 18 and 24″ sizes of the extra strong assembly, also as an alternative to the 24″ size of the street type assembly. Withstands stationary loads of 8000 pounds and impact loads of 4000 pounds. Bar type strainer, light weight, is available with the 12″ square frame below.

Square Cover and Frame



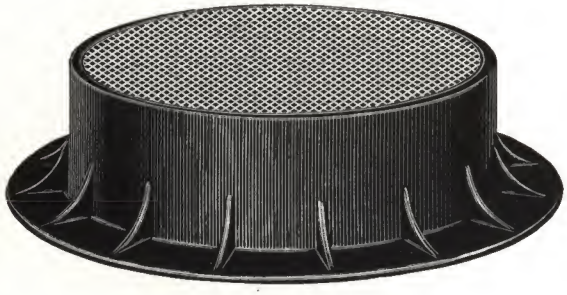
In smaller sizes, the Donley Square Cover and Frame is used for hand holes to give access to meters, traps, valves and connections. Edge is notched for use of pinch bar. Larger sizes have general utility for manhole purposes where square shape is an advantage and where traffic is not heavy. Made in three sizes.

No.	Cover Descrip.	Cover Size	Frame Size	Frame Depth	Weight
10	Solid	12x12″	15 x15″	1¾″	30 lbs.
11	Strainer	12x12″	15 x15″	1¾″	30 "
12	Solid	18x18″	22½x22½″	2½″	70 "
14	Solid	24x24″	29¼x29¼″	2¾″	126 "

Extra Strong. The bottom view shown above is an illustration of the Donley Extra Strong Cover showing its heavy ribbed construction. Used wherever traffic is unusually heavy. Withstands stationary center load of 8000 pounds or an impact of 4000 pounds. This cover is without the lift handle but has a recess for a pinch bar. It is also offered with the strainer cover shown at the left.

No.	Frame Depth	Cover Description	Cover Diam.	Frame Diam.	Shipping Weight
21	2″	Strainer	12″	16⅜″	45 lbs.
22	2″	Solid	18″	23″	88 "
23	2″	Strainer	18″	23″	88 "
28	2½″	Solid	24″	28¾″	180 "
29	2½″	Strainer	24″	28¾″	160 "
35	2¾″	Solid	30″	38½″	425 "

No. 22, 28 and 35 can be supplied with locking device.

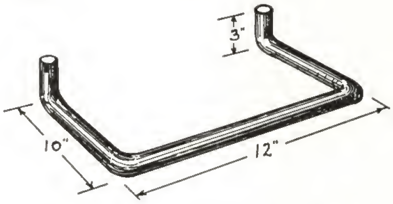


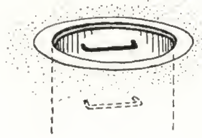
Street Type. The Donley Street Manhole Cover has a deep frame that brings the top level with the surface of the pavement when it rests on the sub-base. Otherwise it is the same as the Extra Strong Manhole Cover illustrated below. It should be used for all openings in pavements leading to sewers, conduits, etc. Available with strainer cover or with solid cover with safety corrugations. Safe loads 8000 pounds, stationary 4000 pounds impact.

No.	Cover Description	Cover Diam.	Frame Diam.	Frame Depth	Shipping Weight
31	Solid	24″	33⅝″	8″	270 lbs.
32	Strainer	24″	33⅝″	8″	250 "
36	Solid	36″	44″	9¾″	630 "

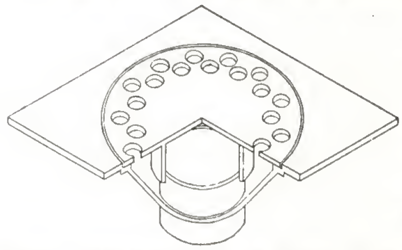
Donley Manhole Steps

Donley Manhole Steps are made of ¾″ copper bearing steel, formed to a convenient shape. Notice in the illustration at the left, that the ends turn up for a better grip on the masonry. Shipping weight 5 lbs.





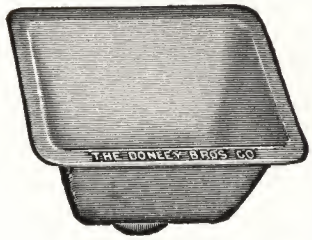
Bell Type Floor Traps

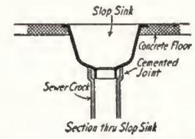


For protection against sewer gas, Donley Bell Type Floor Traps should be installed in the floor of basements, garages, shops, etc. Available in three sizes. Strainer top is fitted in such a manner as to be easily lifted for cleaning the trap.

Size Over All	Outlet	Depth Over All	Sh. Wts. Per Dozen
6x 6″	1⅝″	3″	40 lbs.
9x 9″	2⅝″	4″	100 "
12x12″	3⅛″	5½″	190 "

Donley Slop Sinks





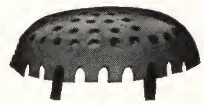
Showing method of installation when used as a floor drain in basement or garage. Note how outlet fits hub of 4″ sewer pipe.

Donley Slop Sinks are made of cast iron for use in rapid drainage of water when sunk in the floor or pavement. Sanitary, round corners prevent accumulation of dirt. Has 4″ perforated outlet.

Dimensions of Donley Slop Sinks

Sizes	Sh. Wts. Each	Sizes	Sh. Wts. Each
12x12x5″	12 lbs.	16x16x 8″	24 lbs.
14x14x6″	14 "	16x16x10″	28 "
16x16x6″	17½ "		

This Removable Strainer is furnished with slop sinks when called for on the order. Shipping weight 1.4 pounds.



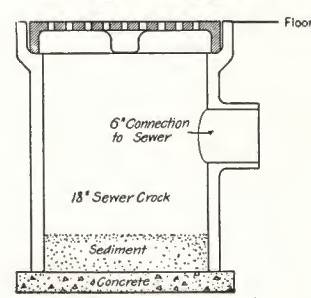
Donley Sewer Pipe Strainers

Bar

Perforated

Donley Sewer Pipe Strainers are made in two types, the Bar type with large openings and the Perforated type with small round openings. The Perforated type has the advantage that its smaller openings exclude small articles of floating rubbish where that is a factor. Drawing at the right shows how these strainers fit into the hub of the upturned sewer crock for catch basin or other drainage purpose. All strainers are made to fit sewer pipe sizes as standardized by the Eastern Clay Products Association. Order by pipe size.

See "†" in table below.



Dimensions of Donley Bar Strainers

Diameter of Pipe	Diameter of Strainer	Shipping Weight Per Dozen
3″	4$\frac{9}{16}$″	11 lbs.
4″	5$\frac{9}{16}$″	15 "
6″	8″	58 "
8″	10¼″	96 "
10″	12¼″	145 "
12″	14⅝″	177 "
*12″	14⅝″	360 "
†12″	14¾″	456 "
15″	17$\frac{11}{16}$″	318 "
*15″	18″	636 "
18″	21″	508 "
20″	23$\frac{5}{16}$″	684 "
24″	28¼″	1120 "

*Extra strong. †Extra strong, large holes, spacing between bars is 1$\frac{11}{16}$″.

Dimensions of Donley Perforated Strainers

Diameter of Pipe	Diameter of Strainer	Shipping Weight Per Dozen
3″	4$\frac{9}{16}$″	11 lbs.
4″	5$\frac{9}{16}$″	20 "
*4″	5$\frac{7}{16}$″	15 "
5″	7$\frac{1}{16}$″	32 "
6″	7⅞″	40 "
*6″	7$\frac{15}{16}$″	29 "
8″	10¼″	80 "
10″	12¼″	140 "
12″	14⅝″	205 "
15″	17$\frac{13}{16}$″	290 "
18″	21″	636 "
24″	28¼″	936 "

*Dome type, similar in shape to REMOVABLE strainer, illustrated above.

Roof Coating

(Asbestos Fiber)

Roofs of homes, garages, industrial or commercial buildings, schools, public buildings, etc., are subject to a continuous process of deterioration from the action of the elements. Constant vigilance and the timely use of Donley Asbestos Fiber Roof Coating are the measures which will keep your roof intact, waterproof and serviceable for long periods.

Donley Asbestos Fiber Roof Coating is a blend of high grade, selected asphalts, compounded with specially treated oils that retain their life for long periods, and is heavily reinforced with long fiber asbestos. It softens and preserves the fabric, restores flexibility, protects the nail heads, flashings and other metal features of the roof from rust and disintegration. Makes an excellent protection for metal roofs. Ordinarily one application suffices, but roof should be inspected at the end of 24 hours and where a "dull" spot in a fabric or paper roof indicates greater porosity, a second application over such areas is desirable.

Donley Asbestos Fiber Roof Coating is regularly shipped in 5-gallon cans with easily removable covers. It is also available in 35-gallon drums, 55-gallon drums and gallon cans. The shipping weight is 10 pounds per gallon.

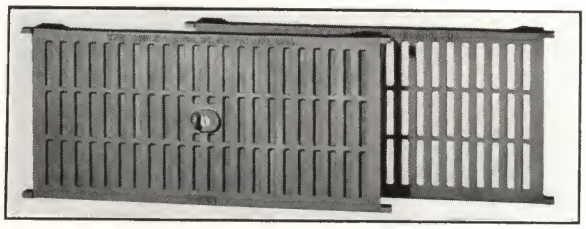
Donley Waterproofing

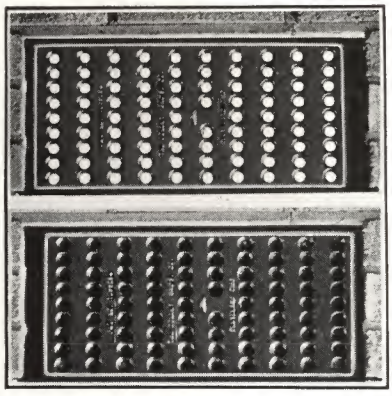
Donley Waterproofing is a highly penetrating and lasting bituminous brush coat that gives unusual protection wherever used for damp proofing and waterproofing. It is especially recommended for application cold on exteriors of foundation walls below grade. Average covering capacity per gallon is 75 square feet, one coat; 50 square feet, two coats. Shipped in 5-gallon cans with handles and easily removable cover. Available also in 1-gallon cans, half barrels and barrels. Shipping weight approximately 9 pounds.

Fibrated Roof Cement

Donley Fibrated Roof Cement is a trowel application of paste consistency that stops leaks in almost any type of roof, including slate or shingle roofs of residences. Its ingredients are similar to the roof coating but of heavier consistency and it should be used around seams, flashings and obvious breaks in the roof fabric as a preliminary to brushing on Donley Asbestos Fiber Roof Coating. Valuable for emergency use in stopping leaks. Donley Roof Patching Cement is supplied in 5-pound, 10-pound, 25-pound and 50-pound cans and in steel drums of approximately 550 pounds.

Ventilators, Adjustable and Fixed



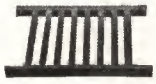


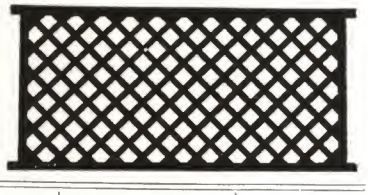
Patented

Dry rot, a fungus disease of timber, develops in dark places that lack sufficient ventilation. Donley Ventilators prevent dry rot by letting fresh air under porches, under homes without basements, in attics or closed lofts, vegetable cellars and elsewhere. Donley Ventilators are made in adjustable types and in types that always remain open. Donley Adjustable Ventilators are made in two designs—bar and round hole (see illustrations above). The bar design with slotted openings $\frac{3}{8}$″ wide has the most free area, double that of the round hole. Both designs are opened or closed by pushing, to right or left, the knob on the movable part. They are made of cast iron, with bar design also available in cast bronze. Supplied with bronze fly screen at small extra cost.

No.	Width	Height	Shipping Weight
116	16″	7¾″	11 lbs.
112	12″	7¾″	8 "
316	16″	7¾″	12 "

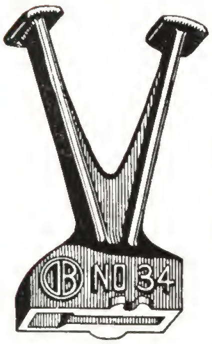
Open Type Ventilators are made in two styles, the Bar type and the Diagonal Grid. The Bar type has vertical bars $\frac{11}{16}$″ apart. The Diagonal Grid type has $\frac{11}{16}$″ square openings. On special order bronze screen is furnished wired to back of ventilator with copper wire. See table below for weights and dimensions.





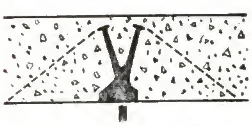
No.	Bar Type Wall Opening Width	Bar Type Wall Opening Height	No.	Diagonal Type Wall Opening Width	Diagonal Type Wall Opening Height	Shipping Weight, Per Dozen Both Types
1	8″	4″	20	4″	8″	22 lbs.
2	8″	6″	21	6″	8″	30 "
3	12″	6″	22	12″	6″	45 "
4	8″	8″	23	8″	8″	36 "
5	12″	8″	24	12″	8″	52 "
6	16″	8″	25	16″	8″	60 "
7	12″	10″	26	12″	10″	55 "
8	16″	10″	27	16″	10″	100 "
9	12″	12″	28	12″	12″	118 "
10	18″	12″	29	18″	12″	134 "
11	24″	12″	30	24″	12″	178 "

Donley Concrete Inserts



A Stronger Insert. For the hanging of fixtures, shafting, pipe, tracks, etc., Donley Inserts give maximum strength. In choosing inserts, they should be judged by load capacity, not by bolt size. For instance the Donley Insert for a ⅜″ bolt will safely support a weight of 1200 pounds with a safety factor of four, whereas some inserts on the market will only support 800 pounds on a ½″ bolt. Both material and design of Donley Concrete Inserts insure greatest load bearing capacity. Made of high grade malleable casting, its two spread legs engage an unusual amount of concrete and the flat lugs at the upper ends assure maximum anchorage.

The design of Donley Inserts was proved sound bv a series of thorough tests. These tests consisted of loading to failure many inserts of each size. In nearly every case, the failure occurred in the bolt or bolt threads. This proved that each insert developed a strength equal to the strength of the bolt in each size. The letter at the right tells of an experience of a well known firm of engineers.



Showing Amount of Concrete Engaged

The diagram at the left shows the amount of concrete engaged as proved by insert installations tested to failure.

The bolt head is thrust through a squared opening at the end of a slot (see photograph above), and moved to the desired position. This permits an adjustment that is one of the advantages of the Donley Insert. Wherever it is important to get the utmost support from the concrete and the bolt, be sure to use a Donley Concrete Insert.

W. J. WATSON and R. L. HARDING, Engineers G. A. NAU, Architect

WILBUR WATSON AND ASSOCIATES
ARCHITECTS AND ENGINEERS
4614 PROSPECT AVENUE
CLEVELAND

Donley Brothers Company
13900 Miles Avenue
Cleveland, Ohio

July 19, 1929

Attention Mr. George Donley

Dear Mr. Donley:-

I thought perhaps you would be interested in a little incident that happened some time ago in the plant of one of our clients, a large automotive manufacturer.

Running thru the plant was a light monorail traveller of some thousand feet in length. It passed thru buildings of various types of construction and was suspended from various types of inserts in concrete or hangers direct from structural steel members.

The workman, desiring to lift a five ton load, suspended a block from this monorail. This load being eight or nine times the carrying capacity of the track could have but one result. The track, in its failure, was whipped down for a distance of nearly 300 ft. and there was every conceivable kind of failure in the inserts or the hangers. But I am pleased to say that the section of the building which we erected, where the monorail was suspended from 3/4" Donley Standard Inserts, that in every case the insert remained intact but that the failure was either in the bolt, the bolt head or the threads. When the monorail was re-erected the Donley inserts were reused and are still in service.

Yours very truly,

G. A. Nau

CAN:FMC

Dimensions of Donley Inserts

Number	634	34	58	12	38
Size bolt, inches	¾	¾	⅝	½	⅜
Safe load, pounds	4900	4900	3300	2300	1200
Height overall, inches	6	6	5	4	3
Length, inches	6	2⅞	2⅝	2 5/16	2
Shipping weight per 100 Inserts	400	185	135	85	45

How To Get Donley Devices

The first step is to take this book to your architect while the home is being planned and explain to him that you want Donley Devices in your home * * or with your builder, if no architect is employed. * * It is probable that both know just where they can be secured. * * Donley Devices are sold through responsible building material dealers, located in principal centers. * * These dealers have a fund of practical information and a real desire to help you. * * If in doubt about the Donley Dealer in your locality, write to the Donley Brothers Company, 13900 Miles Avenue, Cleveland, Ohio. * * Should you live in a locality not served by a Donley Dealer, prices will be quoted directly and all desired information given on request.

THE DONLEY BROTHERS CO., Cleveland, Ohio.

Please send me further information and quotations on the following items shown in your catalog.

. . . .

. . . .

. . . .

. . . .

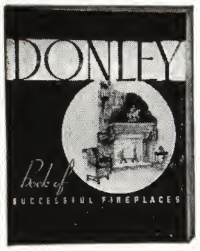
. . . .

Enclosed find:

25 cents ☐ *Book of Successful Fireplaces,* U.S.A.
35 cents ☐ *Book of Successful Fireplaces,* Canada
10 cents ☐ *Successful Outdoor Fireplaces*

Name . . . .

Address . . . .



ORDER THIS BOOK TODAY

WHETHER you are planning a home—are a builder or designer of fireplaces—or simply one who finds enjoyment in the fireside, you should have a copy of this Seventh Edition of the Donley Book of Successful Fireplaces, with its 64 pages, complete instructions and more than 200 illustrations. Price 25 cents (35 cents in Canada). This book is a standard reference work in many libraries and valued in architectural offices and technical schools. Send today.

OTHERS HAVE FOUND THIS BOOK OF SUCCESSFUL FIREPLACES USEFUL

"It seems to have exactly the information that most of our readers are seeking."—*Good Housekeeping Magazine.*

"I bought my first damper from you in 1930. Your Book of Successful Fireplaces and Catalog sold me on the Donley damper. At the time I was a rank amateur, but your plans for fireplace construction made the procedure so simple I just had to do it myself. Structurally it turned out perfectly and everyone was amazed because they all expected it to smoke. I have preached the Donley gospel ever since."—Wendell Smith, Art Director, *Capper's Farmer*, Topeka, Kansas.

"My fireplace works fine, thanks to the Donley Damper and fireplace specifications."—G. Reed Snyder, Carlisle, Pa.

"My brother from Denmark, a mason contractor, is visiting the United States. He wishes to get a sketch of a good dependable fireplace.

"From actual experience, I know that fireplaces erected according to instructions sent with the 'Donley' dampers are very satisfactory.

"Please enter my order for 3 copies of *The Donley Book of Successful Fireplaces.*"—Thorvald Mathiasen, South Amboy, N. J.

WHAT OUR FRIENDS TELL US

A material dealer in Youngstown, Ohio, has this to say: "In view of the fact that we have handled your materials for a number of years and have never had occasion to ask for an adjustment or a claim of any kind warrants us to write you that we greatly appreciate the co-operation which you give your dealers—first, the high grade materials which you use in your complete line of articles; second, the national advertising which is of great help; third, the service which we are able to give through your catalogs and literature."

F. J. McFadden, architect, of Lorain, Ohio, writes to tell of building a rustic fireplace in his studio office, using a Donley Damper. "For my own satisfaction," he states, "I decided to construct this myself and see if a real unskilled mechanic could follow your very complete details and produce a fireplace of credit. The room, 15x30 feet, is being heated with this only and no wind has ever blown smoke down the flue and back into the room. As an architect I have specified Donley products for years and have in all cases found the goods as represented and my advice to all prospective builders of fireplaces is to select your damper and specialties and in all cases follow details to the letter and I can assure you the result will be most gratifying. There is no luck in the construction of a fireplace. Follow the details as prepared by Donley. They have done your experiments for you."

"I want you to know that we like our Heatsaver Fireplace very much," writes C. V. Barber of Chagrin Falls, Ohio. "The warm air outlet to the second floor bedroom makes it warm and cozy. I like the Heatsaver better than a furnace. It heats quicker and with but a small amount of fuel."

"Feeling is believing," writes E. V. Cooke of Cleveland, Ohio. "Although convinced of the soundness of the principles on which your Heatsaver fireplace is constructed—at the time of purchase, it was not until I actually built a fire in it on one of the first cold days of the season that I appreciated how much additional comfort it adds to a living room. The quantity of heat output is a source of continuous surprise and satisfaction."

"My Heatsaver fireplace has been in some two weeks. It is so satisfactory that I am in a measure neglecting business by spending so much of my time enjoying the glow and cheerfulness. It sure is 100% satisfactory.

"It's a marvelous heater. I never thought one could secure so much heat from such a simple device."—Harry Fisher, Cleveland, O.

POST CARD

ONE CENT STAMP HERE

THE DONLEY BROTHERS CO.

13900 MILES AVENUE

CLEVELAND, OHIO

HOW TO BUILD OUTDOOR FIREPLACES

Building an outdoor fireplace is easier if you have a copy of *Successful Outdoor Fireplaces.* Sent for 10c in coin or stamps.

THESE BEAUTIFUL SHADES

SAVE YOU MONEY

.... they're Washable

DU PONT
REG. U.S. PAT. OFF.

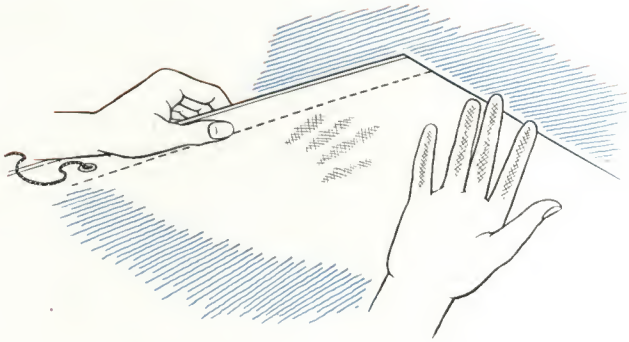
"TONTINE" WINDOW SHADES

"TONTINE"* SHADES ARE MADE OF PYROXYLIN COATED CLOTH

Soap and water makes them clean as new!

YOU wouldn't think of buying lace curtains that can't be washed. Then, don't get window shades that can't be scrubbed. Get "Tontine" washable shades. They're made of a special pyroxylin impregnated cloth that can be washed with soap and water. After a little scrubbing they look bright and clean . . . as crisp and new as the day you bought them.

"Tontine" shades are remarkably durable.



They won't crack, fray or pinhole! Rain won't hurt them! Sunshine won't fade them! And no matter how often you wash "Tontine" shades, they keep their original color. And they save money in replacements—because they wear so long.

Read what these three women have to say about "Tontine" shades:

"We've had our 'Tontine' shades for years. They've been washed at least a dozen times—and look as nice now as the day I bought them."—*Mrs. John L. Myles, Scarsdale, N. Y.*

"The only shade used in The Sherry-Netherland hotel is 'Tontine.' They last longer and save money."—*Miss Anne Owens, Executive Housekeeper, The Sherry-Netherland, N. Y. C.*

"Our 'Tontine' shades get a thorough scrubbing during spring housecleaning. They certainly come clean. And we again have 'new' shades."—*Mrs. Joseph A. Cuddihy, Phoenix, Arizona.*

DUPONT

TONTINE

REG. U.S. PAT. OFF.

WASHABLE WINDOW SHADES

Color 506

SUNSET

DUPONT

TONTINE

REG. U.S. PAT. OFF.

WASHABLE WINDOW SHADES

Color C. T. 510

SUNRISE

YOU HAVE 35 LOVELY COLORS TO SELECT YOUR "TONTINE" SHADES FROM!

THERE ARE cool, neutral colors that do wonders to a house on hot summer days—and bright, cheery ones for grey days during the winter. They range all the way from black or dark green opaque shades to the clear, translucent colors that let the light stream into your rooms. All "Tontine" shades are laboratory tested for light translucency—and laboratory tests show that they admit from 73% to 140% *more* light than ordinary painted cloth shades. Yet their pyroxylin processing keeps glare *out*. May we send you a sample book of "Tontine" shades in the newest colors and pattern effects. There is no obligation.

YOU'LL SEE "TONTINE" SHADES IN THE FINEST HOMES—SOLD BY AUTHORIZED DEALERS EVERYWHERE

MFGD. BY DU PONT E. I. DU PONT DE NEMOURS & COMPANY, INC.

REG. U.S. PAT. OFF.

"TONTINE" SALES NEWBURGH, NEW YORK

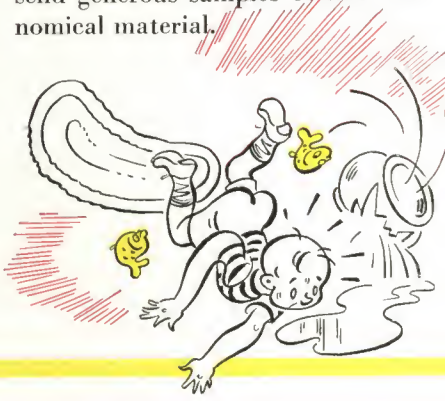
*"TONTINE" is du Pont's registered trade mark designating its pyroxylin impregnated washable window shade cloth.

"RUG ANCHOR"*

KEEPS SCATTER RUGS FROM SKIDDING

BIG RUGS as well as little rugs are held securely in place with "Rug Anchor" sponge rubber non-skid. It won't let them skoot, skid, slide or creep. Trim it to any size rug—put it underneath—and forget about those slippery, highly polished floors. It makes rugs cling like a leech—and helps prevent your family and friends from possible costly, painful falls.

"Rug Anchor" is dust-proof and water-proof! It's rubber . . . so it won't harbor moths! And its cushion effect lessens wear and makes rugs last longer. We'll be glad to send generous samples of this economical material.



"VELVETEX"*

MAKES ANY RUG FEEL THICK AND LUXURIOUS

ACTUALLY, it's like walking on air—your rugs feel so thick and soft! Tests show "Velvetex" sponge rubber rug cushion increases rug life as much as 140%. In one test 265,000 people were clocked as they tramped, tramped, tramped over "Velvetex" and it didn't show appreciable wear.

"Rug Anchor" will wear for years in your home. It's sanitary, non-absorbent, moth-proof and can be cleaned with the vacuum or broom. See "Velvetex" at your local department store or floor covering shop. Write for samples.

DU PONT
REG. U.S. PAT. OFF.

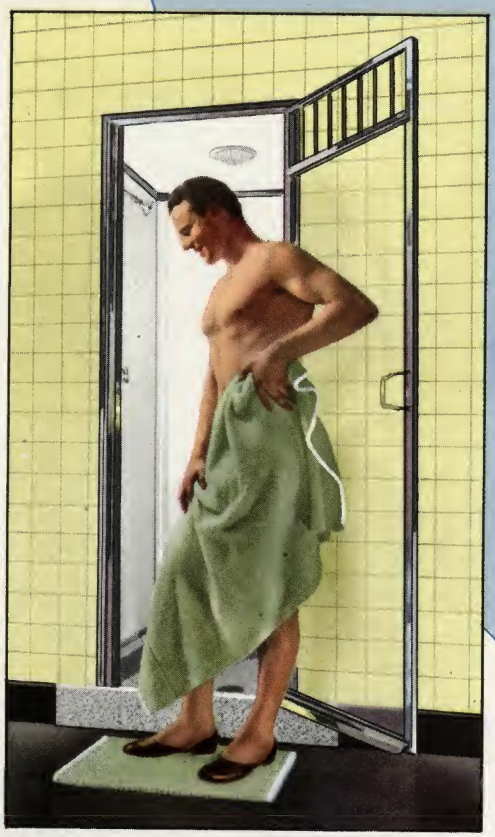
E. I. DU PONT DE NEMOURS & CO., INC., NEWBURGH, NEW YORK

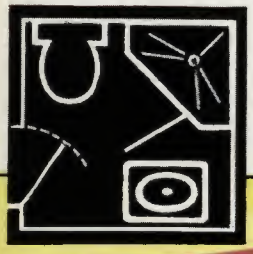
**"Rug Anchor" and "Velvetex" are Reg. U. S. Pat. Off. by E. I. du Pont de Nemours & Co., Inc.*

FIAT

SHOWER CABINETS

FIAT *for* HEALTHFUL BATHING





Recessed Models

Interior walls of either porcelain enamel or baked-on enamel. All models furnished with pre-cast leakproof terrazzo receptors. Special brass chromium plated door frames are specially built to receive varied bathroom wall material. Can be had with or without door. Prices from $150.00 complete. Available in seventeen sizes.

Corner Entrance Design

Designed to conserve space in small bathrooms and yet obtain complete shower bathing facilities. Interior wall surfaces of either porcelain or baked-on enamel; all models furnished with pre-cast leakproof receptor. Cabinet prices from $95.00. Door prices from $35.00.

Glass Shower Enclosures

For distinctive beauty and luxury, the FIAT line of Glass Shower Enclosures has no equal. Background walls and top of vitreous enamel; door, front and one side panel of glass, exquisitely framed in chromium. Complete with the beautiful FIAT pre-cast terrazzo receptor. Prices from $325.00. Available in seventeen sizes.

FIAT and "The Modern World's Bath" are synonymous. This lusty beauty and luxury loving generation demanded the health and exhilaration of shower bathing and FIAT produced innovations that have carried shower bathing generations ahead in a few brief years . . . FIAT makes the future possible today with —

Beauty

THAT IS JOYOUS TO LIVE WITH

FIAT decided years ago that beauty of design, color and finish should rule their creation of shower bath cabinets. Customers decided FIAT was right and today smart bathrooms everywhere owe something to the FIAT shower compartment installed. The pleasure of using your shower is stepped up and your pride in your bathrooms' modern beauty lasts with FIAT because quality manufacture has seen to it that this beauty does not work off with the passing of years.

Sanitation

THAT IS EASY TO SPOTLESSLY MAINTAIN!

Washed and rinsed you step from your FIAT shower bath cabinet feeling a sense of cleanliness that is accentuated by the immaculate condition of the shower cabinet you have left. Ingenious engineering is responsible for FIAT immunity to dirt collection. This is a time, work and disposition saving quality that all FIAT shower cabinets possess.

Leakproof

THAT DRIES THE TEARS OF YESTERYEARS FROM SHOWERS

FIAT has achieved a leakproof shower—a feat in careful engineering that few people thought could be achieved, yet everyone agreed would be wonderful. The secret is first of all the patented FIAT pre-cast receptor—then a way of getting rid of joints and cracks that could leak. Sounds simple and is for you to enjoy if you insist on FIAT.

Economy

THAT MAKES YOUR DECISION FIAT

Look at the price tags and see what you get in a FIAT shower bath cabinet. You are astonished at the values and the price spread that makes slenderest budgets for a shower bath quickly satisfied. All the shower compartments and extra ones, too, are yours with FIAT range of prices and models.

Bath Tub Enclosures

FIAT Bath Tub Enclosures transform tubs of any size or any shape, old or new, into modern watertight showers. They increase the practicability of tub-shower bathing, eliminate inadequate shower curtains and add distinction to any bathroom. Prices from $85.00.

Corner or Free Standing Models

Furnished with walls of either porcelain or baked-on enamel. Choice of either terrazzo or art-tex pre-cast leakproof receptors. Cabinet illustrated is FIAT Admiral model with walls finished in porcelain enamel, and pre-cast terrazzo receptor. Admiral prices from $165.00. Other models with baked enamel finish from $70.00. Shower door prices from $35.00.